



441102

# **REMEDIAL ACTION SEMI-ANNUAL MONITORING REPORT**

## **2ND HALF – 2010 (28 of 73)**

### **SKINNER LANDFILL SITE BUTLER COUNTY WEST CHESTER, OHIO**

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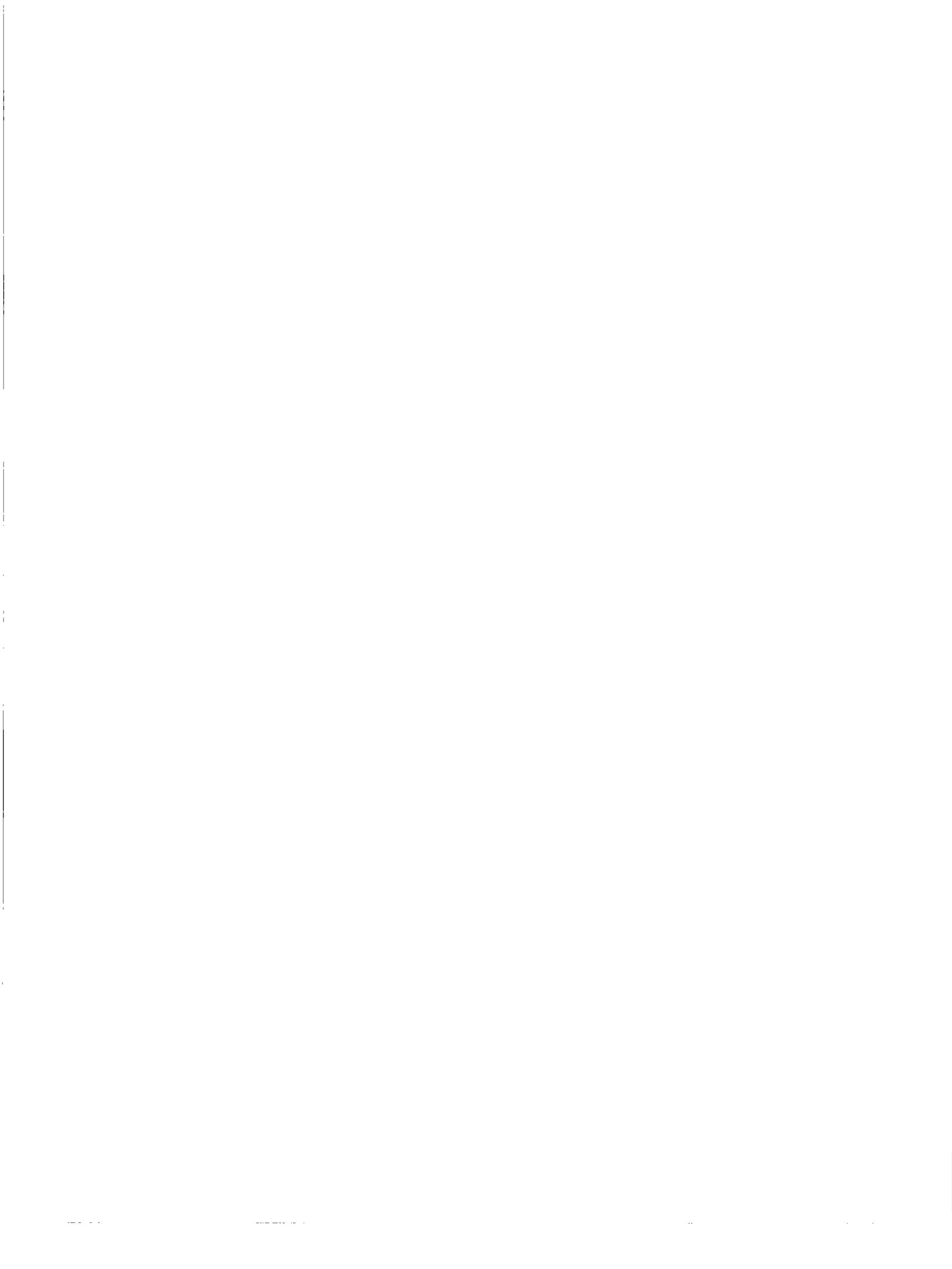
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**LIST OF ACRONYMS**

BMR	Baseline Monitor Report
BCDES	Butler County Department of Environmental Services
bgs	Below Ground Surface
CD&D	Construction Debris and Demolition Waste
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CGI	Combustible Gas Indicator
CHSD	Corporate Health and Safety Director
CLP	Contract Laboratory Program
cm/sec	Centimeters Per Second
CO	Carbon Monoxide
CP	Contingency Plan
CQA	Construction Quality Assurance
CQAC	Construction Quality Assurance Consultant
CRZ	Contamination Reduction Zone
CRQL	Contract Required Quantitation Limit
CSDI	Contaminated Soils Design Investigation
CY	Cubic Yard
CZ	Control Zone
DSW	Division of Surface Water (OEPA)
DSR	Division Safety Representative
EPA	Environmental Protection Agency
EZ	Exclusion Zone
FID	Flame Ionization Detector
FML	Flexible Membrane Liner (low density polyethylene)
FSP	Field Sampling Plan
FTB	Film Tearing Bond
ft	Feet
ft/sec	Feet Per Second
GCL	Geosynthetic Clay Layer
GCAL	Gulf Coast Analytical Laboratories Inc.
GIS	Groundwater Interceptor System
gpd	Gallons Per Day
gpm	Gallons Per Minute
GWDI	Groundwater Design Investigation
HAP	Hazardous Air Pollutant
HASP	Health and Safety Plan
HDPE	High-Density Polyethylene
HSM	Health and Safety Manager
IDLH	Immediately Dangerous to Life or Health
IRM	Interim Remedial Measures
kg/d	Kilograms Per Day
lb/day	Pounds Per Day

LEL	Lower Explosion Limit
LF	Lineal Feet
LLDPE	Linear Low-Density Polyethylene
$\mu$	Micron
$\mu\text{g/l}$	Microgram per Liter
MSL	Mean Sea Level
NIOSH	National Institute for Occupational Safety and Health
NO <sub>x</sub>	Oxides of Nitrogen
NWI	National Wetland Inventory
O <sub>3</sub>	Ozone
OAC	Ohio Administrative Code
ODNR	Ohio Department of Natural Resources
OEPA	Ohio Environmental Protection Agency
ORC	Ohio Revised Code
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PID	Photoionization Detector
PLC	Programmable Logic Controller
PM-10	Particulate Matter less than 10 microns
PRP	Potentially Responsible Party
PPE	Personal Protective Equipment
psi	Pounds Per Square Inch
PQL	Practical Quantitation Limit
QAPP	Quality Assurance Project Plan
QA	Quality Assurance
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RA	Remedial Action
RD	Remedial Design
RHSS	Regional Health & Safety Specialist
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RPM	Remedial Project Manager (USEPA)
RPO	Resident Project Observer
SI	Site Inspection
SF	Square Feet
SLWG	Skinner Landfill Work Group
SO <sub>2</sub>	Sulfur Dioxide
SOP	Standard Operating Procedure
SOW	Statement of Work
SPCC	Spill Prevention Control and Counter Measure Plan
SSO	Site Safety Officer
SVE	Soil Vapor Extraction
SVOC	Semi-Volatile Organic Compound
SZ	Support Zone
TAL	Target Analyte List



TCL	Target Compound List
TDH	Total Dynamic Head
TLV	Threshold Limit Values
TSS	Total Suspended Solids
TWA	Time Weighted Average
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Services
USGS	United States Geological Survey
VOC	Volatile Organic Compound
yr	Year
WZ	Work Zone

## 1.0 INTRODUCTION

### 1.1 GENERAL INFORMATION

This semi-annual monitoring report was prepared for the Skinner Landfill Superfund Site located in West Chester, Butler County, Ohio in accordance with the Operation and Maintenance - Long-Term Performance Plan (O&M-LTP Plan) dated August 2003 as revised by the amended requirements as set forth in the Petition to Reduce Monitoring Report submitted by Earth Tech in April 2008 and the conditional approval letter issued by the USEPA dated November 24, 2009. The O&M-LTP Plan was prepared to meet the requirements of the Record of Decision (ROD) dated June 4, 1993, the Statement of Work (SOW) dated April 6, 1994, the 100% Final Remedial Design dated June 21, 1996 and the Consent Decree dated April 7, 2001.

The remedial action (RA) post-construction O&M monitoring period began with the third quarter of 2003 and extends for a period of 30 years. The Petition to Reduce Monitoring and associated conditional USEPA approval included a reduction in the number of groundwater and surface water samples required for each sampling event, as well as a change in the required sampling frequency from quarterly to semi-annual. This report documents the results of groundwater and surface water monitoring conducted during the second half of 2010, which is the 28th of 73 sampling events to be conducted during the 30-year monitoring period.

### 1.2 SITE LOCATION AND DESCRIPTION

Skinner Landfill is located approximately 15 miles north of Cincinnati, Ohio near West Chester, Butler County, Ohio in Township 3, Section 22, Range 2. The site is located along Cincinnati-Dayton Road, as shown in Figure 1. The site is bordered on the south by the East Fork of Mill Creek, on the north by wooded land, on the east by a Norfolk Southern Railway Company right-of-way, and on the west by a gravel driveway.

The site is located in a highly dissected area that slopes from a till-mantled-bedrock upland to a broad, flat-bottomed valley that is occupied by the main branch of Mill Creek. Elevations on the site range from a high of nearly 800 feet above mean sea level (MSL) in the northeast, to a low of 645 feet above MSL near the confluence of Skinner Creek and East Fork of Mill Creek. Both Skinner Creek and the East Fork of Mill Creek are small, intermittent shallow streams. Both of these streams flow to the southwest from the site toward the main branch of Mill Creek.

In general, the site is underlain by relatively thin glacial drift over inter-bedded shale and limestone of Ordovician age. The composition of the glacial drift ranges from intermixed silt, sand and gravel, to silty sandy clays with a thickness ranging from zero to over forty feet. The sand and gravel deposits comprise the hills and ridges and are encountered near the surface of the central portion of the site. The silts and clays usually occur as lenses in the sands and gravel or directly overlie bedrock.



### 1.3 SITE HISTORY AND BACKGROUND

The property was originally developed as a sand and gravel mining operation and was subsequently used as a landfill from 1934 to 1990. According to USEPA studies, materials deposited at the site include demolition debris, household refuse and a wide variety of chemical wastes. The waste disposal areas include a now buried former waste lagoon near the center of the site and a landfill.

According to USEPA studies, the buried lagoon was used for the disposal of paint wastes, ink wastes, creosote, pesticides, and other chemical wastes. The landfill area, located north and northeast of the buried lagoon, received predominantly demolition and landscaping debris.

In 1976, the Ohio EPA (OEPA) initiated an investigation of the site. In 1982, the site was placed on the National Priority List by the USEPA based on information obtained during a limited investigation of the site. A Phase II Remedial Investigation was conducted from 1989 to 1991 and involved further investigation of groundwater, surface water, soils and sediments. Both a Baseline Risk Assessment and Feasibility Study (FS) were completed in 1992.

The Phase II Remedial Investigation revealed that the most contaminated media at the site is the soil in the buried waste lagoon. Migration of the landfill constituents has been limited, and the Phase II Remedial Investigation concluded that there had been no off-site migration of landfill constituents via groundwater flow.

In the Record of Decision (ROD), dated June 4, 1993, the USEPA selected a remedy for the site consisting of multi-media capping of the landfill and the buried waste lagoon, and collection and treatment of the groundwater. The ROD also required an investigation to determine the feasibility for soil vapor extraction (SVE) in the granular soil adjacent to the buried lagoon.

The Remedial Design (RD) Investigation performed in 1994 was implemented to collect data required to assess the feasibility of the SVE and to design the multi-media cap and the groundwater extraction/treatment systems. The Remedial Design was submitted to USEPA on June 21, 1996 outlining the cover design and groundwater interception system design. Based on the RD investigation, the installation of an SVE system was determined to be unfeasible.

Construction of a groundwater interception system (GIS) and engineered landfill cover system began in April 2001 and was substantially completed in September 2001. The USEPA conducted the pre-final construction inspection on September 27, 2001, the final construction inspection on March 27, 2003 and the second 5-Year Review in March 2004.

## 2.0 SAMPLING METHODS

This semi-annual monitoring event was conducted in general accordance with the following documents shown with the date of the USEPA-approved final version:

- Operation and Maintenance - Long-Term Performance Plan (O&M-LTP Plan) dated August 2003 as revised by the Petition to Reduce Monitoring dated April 2008 and conditionally approved by the USEPA in November 2009, and

- O&M Health and Safety Plan, revised September 2010.

There were no deviations from these work plans.

### 3.0 RESULTS

#### 3.1 GROUNDWATER LEVELS

The groundwater elevation data obtained from the monitor wells, piezometers and selected gas probes for the 3<sup>rd</sup> and 4<sup>th</sup> quarters of 2010 is presented on Table 1 with the corresponding potentiometric surface maps provided in Appendix A. The groundwater hydraulic gradient calculated from data collected was 0.081 ft/ft in September 2010 and 0.074 ft/ft in December 2010.

The average hydraulic gradient documented in the Remedial Action Baseline Monitoring Report, dated March 2005, is calculated to be 0.13 ft/ft.

#### 3.2 GROUNDWATER-WASTE MONITORING

Historic data for piezometers P-9R to P-12R and results of the piezometer groundwater levels obtained this semi-annual period are provided on Table 2. Based on measured water levels, the groundwater level is above the waste elevation at piezometers P-9R, P-10R, and P-11R.

#### 3.3 GROUNDWATER ANALYTICAL RESULTS

A summary of target compound list (TCL) and target analyte list (TAL) parameter concentrations encountered above the contract required quantitation limit (CRQL) and revised modified trigger level is provided on Table 3. A summary of the laboratory analytical results have been presented on a per well basis in Appendix B to assist in identifying temporal detection patterns. A report of each data set reduction, validation and assessment procedure conducted on an analytical-set basis in accordance with the O&M-LTP Plan quality assurance project plan (QAPP) is included in Appendix C.

In general, target compound list volatiles, semi-volatiles, pesticides and PCBs were not detected in groundwater above the CRQL.

Of the 16 TAL parameters that have corresponding trigger levels, only barium was detected above the CRQL in perimeter well GW-26. All other groundwater TAL concentration were below the corresponding trigger levels for the second half of 2010.

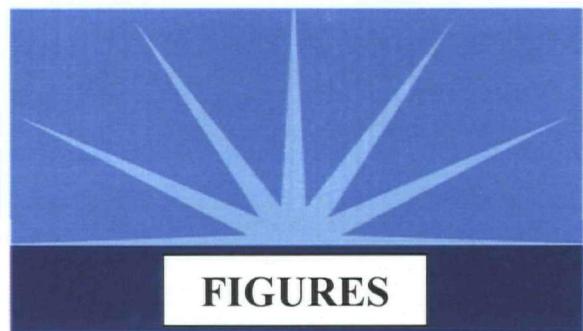
#### 3.4 SURFACE WATER ANALYTICAL RESULTS

Surface water was not analyzed during the 2<sup>nd</sup> half of 2010 due to the lack of flow at either of the two surface water (SW) sample locations of the East Fork of Mill Creek (SW samples). Additional details concerning flow conditions observed in the Mill Creek are discussed in the following section. Landfill cap surface water drainage samples (SWD samples) were not collected due to lack of flow.

A summary of TCL and TAL parameter concentrations encountered above each corresponding CRQL and revised modified trigger level is provided on Table 4. A summary of laboratory analytical results is presented in Appendix B. The summary tables are presented on a sample location basis. The validated laboratory analytical data is provided in Appendix C.

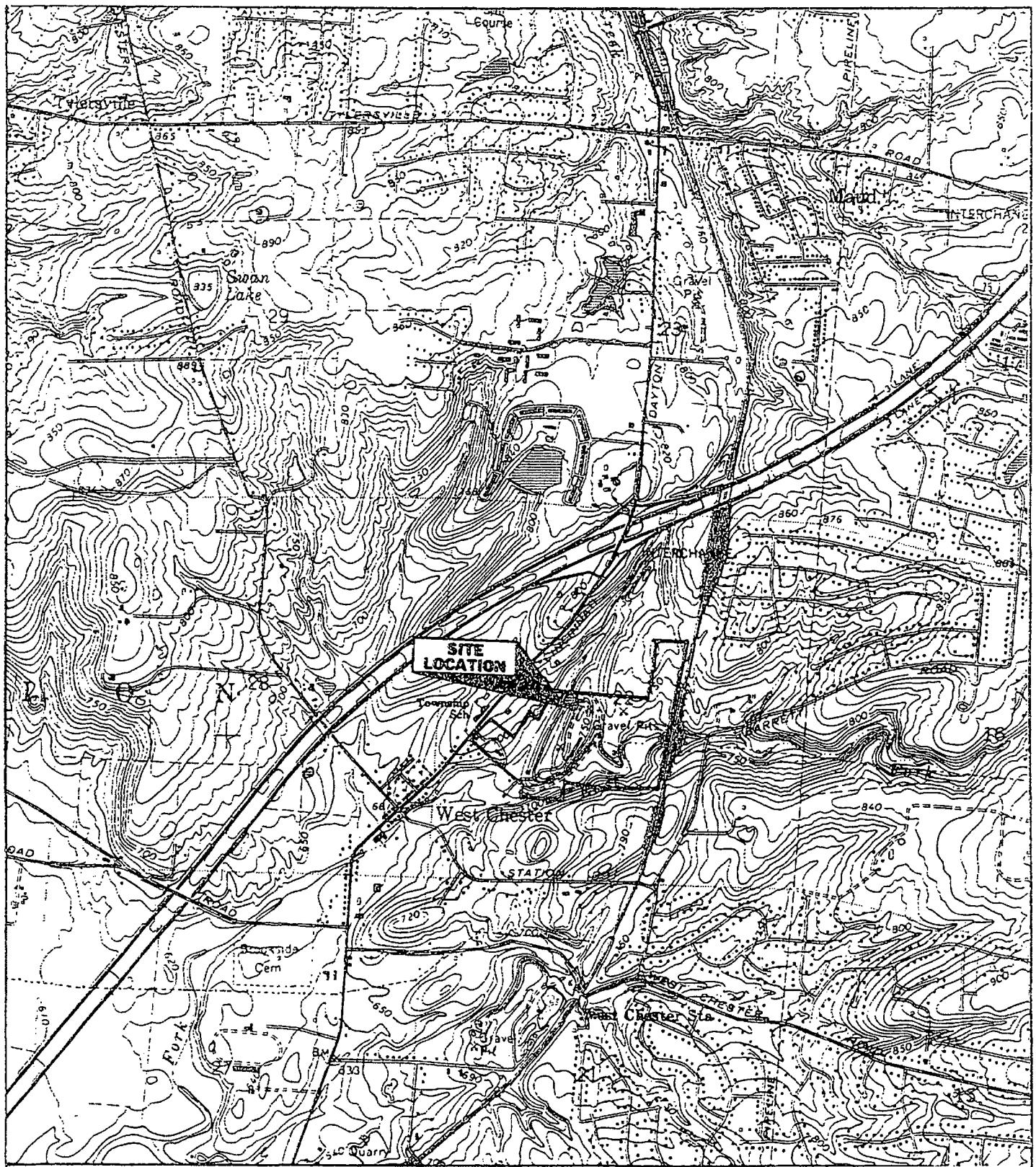
### **3.5 GENERAL SITE OBSERVATIONS**

This section provides a description of observations made in or around the 16-acre fenced area during the sampling period associated with other activity which may impact the project site. Unusual amounts of highly turbid water were observed in the East Fork of the Mill Creek during the sampling event following a prolonged period without precipitation in the area. During the first day of sampling activities on September 13, 2010, the creek was almost completely dry with too little flow to collect surface water samples. During the second day of sampling activities on September 14, 2010, the creek exhibited unusually high water flow rates with an unusually high concentration of total solids noted. This flow did not appear to be associated with normal precipitation and, although the actual source was not determined following communication with the Butler County Water and Sewer (BCWS) department, no samples were collected or analyzed because of the unknown origin of the flow and the extremely high turbidity which could potentially cause complications during laboratory analysis. On the third day of sampling activities on September 15, 2010, the water flow was back down to little to no flow as observed on the first day of field activities. Photographs of the unusual flow conditions described above are included as Appendix D.



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Base taken from USGS Glendale, Ohio  
7.5' Topographic Quadrangle, photorevised 1987

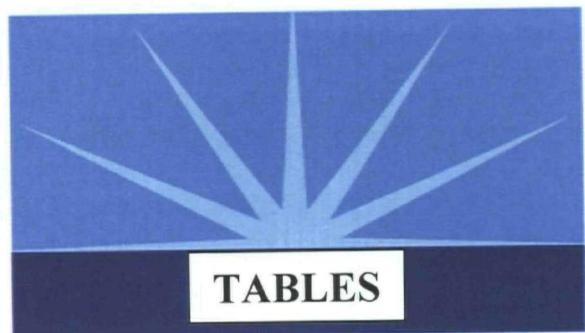


SKINNER LANDFILL

### SITE VICINITY MAP

BUTLER COUNTY, OHIO

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**TABLE 1**  
**Groundwater Elevation Summary**  
**Skinner Landfill**  
**West Chester, Ohio**

Well Type	Location	Well Use	Ground Surface Elevation (MSL-feet)	Top of Casing Elevation (MSL-feet)	September 13, 2010		December 17, 2010	
					Depth to Water (feet from top of casing)	Groundwater Elevation (MSL-feet)	Depth to Water (feet from top of casing)	Groundwater Elevation (MSL-feet)
Piezometers	P-1	G	685.42	687.65	11.76	675.89	10.86	676.79
	P-2	G	688.54	690.42	13.22	677.20	14.13	676.29
	P-3R	G	691.83	693.69	25.62	668.07	26.20	667.49
	P-4	G	700.32	702.63	7.95	694.68	7.13	695.50
	P-5	G	708.20	710.65	14.75	695.90	15.72	694.93
	P-6	G	707.45	710.59	13.71	696.88	12.26	698.33
	P-7	G	719.08	721.83	Dry	Dry	Dry	Dry
	P-8	G	747.70	749.91	30.58	719.33	30.71	719.20
	P-9R	G	760.12	763.58	21.67	741.91	19.32	744.26
	P-10R	G	761.87	765.84	27.55	738.29	28.58	737.26
	P-11R	G	760.39	763.38	29.11	734.27	32.05	731.33
	P-12R	G	750.11	753.60	41.44	712.16	40.05	713.55
Groundwater Monitoring Wells	GW-06R	S	683.89	685.91	12.34	673.57	9.02	676.89
	GW-07R	S	683.46	683.06	11.46	671.60	5.00	678.06
	GW-24	G	693.32	695.21	19.44	675.77	18.78	676.43
	GW-26	G	696.61	698.28	31.70	666.58	29.88	668.40
	GW-30	G	675.63	677.62	9.25	668.37	10.44	667.18
	GW-58	S	684.03	686.53	19.37	667.16	13.66	672.87
	GW-59	S	684.35	687.38	9.36	678.02	6.70	680.68
	GW-60	S	689.12	692.38	14.42	677.96	8.46	683.92
	GW-61	S	687.38	690.86	13.63	677.23	12.99	677.87
	GW-62A	S	690.19	692.38	16.04	676.34	18.42	673.96
	GW-62B	S	690.57	693.13	12.72	680.41	12.02	681.11
	GW-63	S	698.87	702.50	11.30	691.20	7.34	695.16
	GW-64	S	700.45	703.88	13.06	690.82	13.50	690.38
	GW-65	S	703.83	706.88	16.21	690.67	11.32	695.56
	GW-66	G	686.82	689.41	9.40	680.01	6.37	683.04
Gas Probes	GP-6	G	772.18	774.65	16.92	757.73	16.50	758.15
	GP-7	G	749.83	752.65	Dry	752.65	8.33	744.32

MSL - Mean Sea Level

G - Gauging

S - Sampling and Gauging (GW-24, 26, and 30 are sampled on an annual basis.)

P-9R, 10R, 11R, and 12R were installed December 2006 to January 2007. Replaced P-9, 10, 11, and 12.

**TABLE 2**  
**Groundwater-Waste Monitoring Summary**

**Skinner Landfill**  
**West Chester, Ohio**

Piezometer ID	P-9R	P-10R	P-11R	P-12R	Comments	
Grade Elevation (feet)	760.12	761.87	760.39	750.11		
Bottom of Waste Elevation (MSL-feet)	731.92	729.87	728.00	722.61		
Depth to Bottom of Waste (feet)	28.20	32.00	32.39	27.50		
Groundwater Elevation (ft):	22-Jan-07	747.70	739.52	734.04	721.24	BASELINE
	02-Mar-07	748.03	740.60	735.68	718.17	1st Q 2007
	11-Jun-07	746.34	751.34*	737.08	716.70	2nd Q 2007
	04-Sep-07	736.49	737.73	733.49	712.61	3rd Q 2007
	17-Dec-07	745.36	736.92	731.13	714.31	4th Q 2007
	10-Mar-08	747.61	739.04	733.71	717.42	1rst Q 2008
	02-Jun-08	748.06	740.44	739.15	719.10	2nd Q 2008
	16-Sep-08	743.09	738.64	735.98	714.85	3rd Q 2008
	01-Dec-08	736.46	737.52	733.38	712.40	4th Q 2008
	18-Feb-09	745.77	738.00	731.92	715.45	1rst Q 2009
	08-Jun-09	745.64	738.74	733.48	716.75	2nd Q 2009
	21-Sep-09	743.58	738.02	738.88	723.50	3rd Q 2009
	30-Nov-09	744.66	737.89	739.23	720.01	4th Q 2009
	15-Mar-10	747.02	739.12	738.38	720.30	1st Q 2010
	4-Jun-10	746.73	739.61	736.29	717.95	2nd Q 2010
	13-Sep-10	741.91	738.29	734.27	712.16	3rd Q 2010
	17-Dec-10	744.26	737.26	731.33	713.55	4th Q 2010

Notes:

Bottom-of-Waste elevations determined during installation of new piezometers completed between 12/6/06 through 12/11/06.  
Shaded cells indicate water level elevations below the elevation of waste.

\* Groundwater Elevation suspect.

**TABLE 3**  
**Groundwater Test Results Summary**

**Skinner Landfill  
 West Chester, Ohio  
 Third Quarter 2010**

Sample ID	VOCs	SVOCs	Dissolved Metals**	Pesticides/PCBs
GW-06R				
GW-07R	—	—	—	—
GW-58	—	—	—	—
GW-59	—	—	—	—
GW-60				
GW-61	—	—	—	—
GW-62A				
GW-62B				
GW-63	—	—	—	—
GW-64				
GW-65	—	—	—	—
GW-24 (Perimeter Well)				
GW-26 (Perimeter Well)	—	—	Barium	—
GW-30 (Perimeter Well)				

**Notes:**

— : all parameters below report limits

*italic* : above Contract Required Quantitation Levels (CRQL's)

**bold** : above trigger level

\* : Insufficient sample volume or location dry.

\*\* : Dissolved metals for analytes that have a corresponding trigger level.

**TABLE 4**  
**Surface Water Test Results Summary**

**Skinner Landfill  
 West Chester, Ohio  
 Third Quarter 2010**

Sample ID	VOCs	SVOCs	Dissolved Metals**	Pesticides/PCBs
SW-50				
SW-51				
SW-52				
SWD-1				
SWD-2				
SWD-3				

**Notes:**

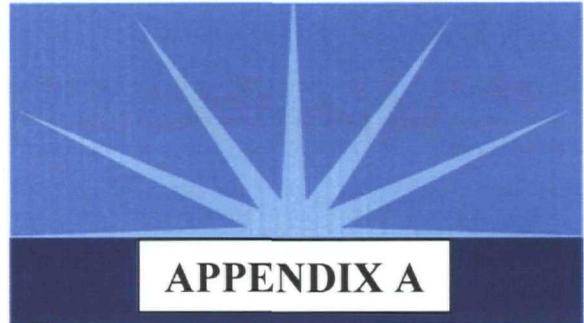
— : all parameters below report limits

*italic* : above Contract Required Quantitation Levels (CRQL's)

**bold** : above trigger level

\* : Insufficient sample volume or location dry.

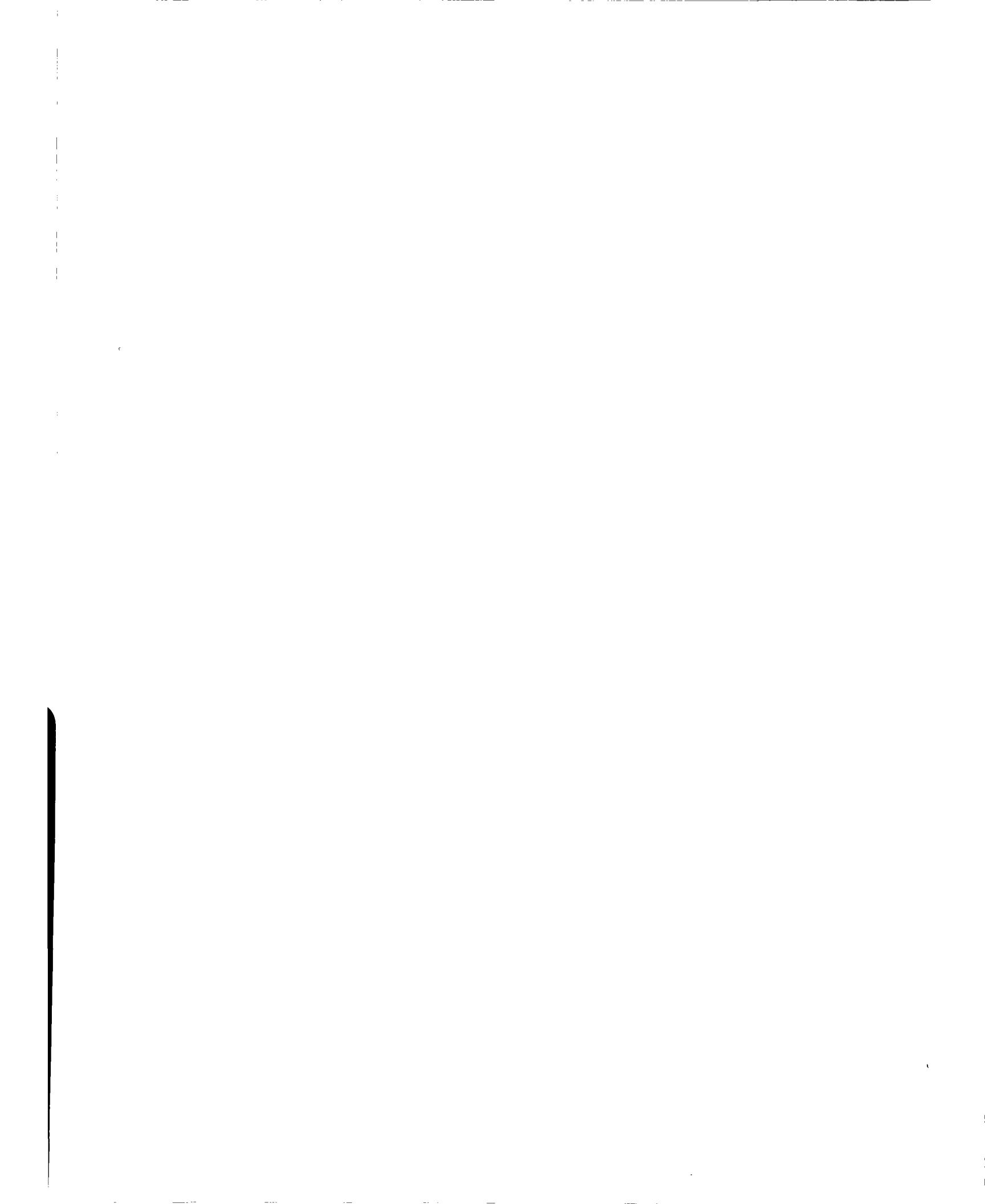
\*\* : Dissolved metals for analytes that have a corresponding trigger level.



**APPENDIX A**

**POTENTIOMETRIC  
SURFACE MAP**

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# SDMS US EPA Region V

## *Imagery Insert Form*

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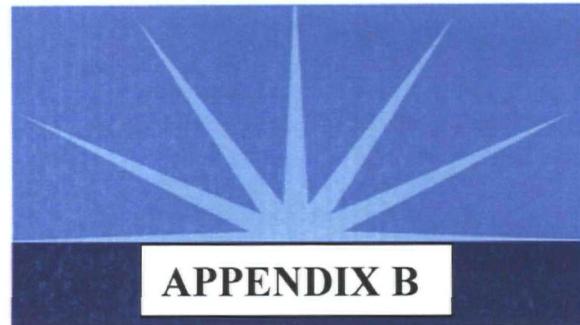
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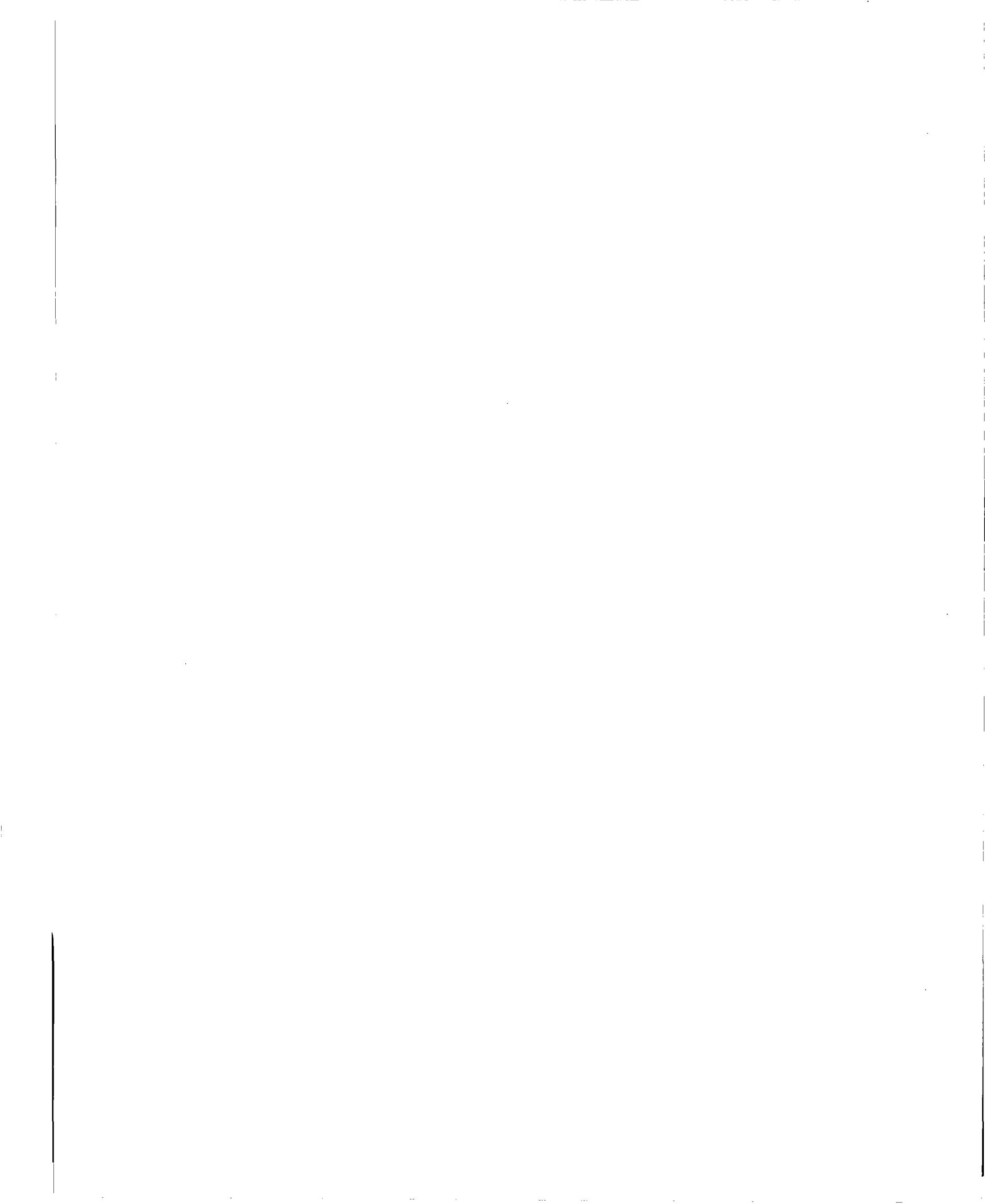
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## SUMMARY OF ANALYTICAL RESULTS

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**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for GW-06R**

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10			
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>										Sampling no longer required see note 16		
Aluminum	15.4 U	15.3 U	15.3 U	15.3 U	26.9 U	26.9 U	60.7 B	75.8 B			200	
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U			60	60
Arsenic	2.4 U	2.5 U	2.5 UJ	2.7 B	3.6 U	3.6 U	3.6 UJ	3.6 UJ			20	10
Barium	199 B	211 J	168 B	195 B	146 B	199 B	198 B	188 B			1,000	200
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U			5	5
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.6 B	0.3 B	0.4 B			5	5
Calcium	199,000	180,000 J	229,000	164,000 J	223,000	215,000	208,000	210,000			5,000	
Chromium	0.30 U	2.1 B	0.20 U	0.20 U	2.7 B	1.1 B	0.4 UJ	2.2 B			11	10
Cobalt	0.20 U	0.50 B	1.4 B	0.30 U	0.5 U	1.3 B	0.5 U	0.5 U			50	
Copper	2.3 B	3.0 B	1.2 B	0.60 U	5.3 B	6.0 B	5.9 B	5.6 B			25	25
Iron	69.6 B	586	60.0 B	8.1 U	24.8 B	361	291	86.6 B			7,000	100
Lead	1.0 B	2.4 B	1.2 B	1.2 U	1.6 U	1.6 U	2.7 J	4.9			4.2	3
Magnesium	35,800	34,200 J	43,600 J	29,500 J	39,700	38,000	36,400	37,200			5,000	
Manganese	6.5 B	132.0	451 J	226	19.0	64.9	41.1 J	22.2			15	
Mercury	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U			0.2	0.2
Nickel	0.40 U	0.40 U	0.40 B	0.40 U	0.4 U	1.1 B	0.8 B	0.4 U			96	40
Potassium	2,180 B	2,460 B	5,400	2,420 J	2,370 B	2,330 B	2,800	2,510 B			5,000	
Selenium	3.9 U	3.1 U	3.1 UJ	3.1 UJ	4.3 J	3.3 U	3.3 U	3.3 U			8.5	5
Silver	0.30 U	0.40 U	0.40 U	0.40 U	1.3 B	0.5 U	0.5 U	0.5 U			10	10
Sodium	19,400	17,300 J	29,900 J	16,000 J	20,300	20,800	20,300	20,800			5,000	
Thallium	4.7 B	1.8 U	1.9 B	1.8 U	1.5 R	2.1 J	1.5 UJ	1.5 UJ			40	10
Vanadium	1.0 U	10.4 B	12.0 B	3.2 B	1.0 U	4.1 B	1.0 U	7.5 B			50	
Zinc	9.0 B	15.2 B	0.50 U	0.50 UJ	4.3 U	4.9 B	4.3 U	4.3 U			86	20
<b>Inorganics - Metals and Cyanide (Total)</b>												
Aluminum	141 J	457	1,190	11,500 J	178 J	161 B	303 J	84.8 B				
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U				
Arsenic	2.4 UJ	2.5 UJ	6.8 B	11.1	3.6 U	3.6 U	3.6 UJ	3.6 UJ				
Barium	195 B	214 J	251 J	313 J	144 J	197 B	202	205				
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U				
Cadmium	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.2 U	0.6 B	0.4 B	0.4 B				
Calcium	197,000	173,000 J	235,000 J	303,000 J	235,000	201,000	205,000	225,000				
Chromium	0.60 B	3.1 B	0.20 U	15.9	2.9 B	1.7 B	0.4 UJ	2.7 B				
Cobalt	0.30 B	0.90 B	3.0 B	11.5 B	0.5 U	0.9 B	0.5 U	0.5 U				
Copper	5.40 B	5.3 B	6.0 B	23.7 B	6.7 B	6.2 B	6.6 B	5.5 B				
Cyanide	0.60 U	0.60 U	0.60 U	0.60 U	0.2 U	0.2 U	1.6 U	1.6 U			10	10
Iron	523	2,090	4,050 J	25,500	465	412 J	954 J	266				
Lead	0.80 UJ	3.4	4.8	21.1	1.6 UJ	1.6 U	3.7 J	4.2 J				
Magnesium	35,600	34,300 J	475,000 J	88,000 J	41,500	36,500	36,100	39,900				
Manganese	19.3	106.0	535 J	748	21.7	40.1 J	44.6	27.7				
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 B				
Nickel	0.40 U	0.40 B	1.9 B	21.8 B	0.4 U	0.6 B	0.7 B	0.4 U				
Potassium	2,220 J	2480.0 B	3,010 J	4,840 J	2,390 J	2,130 B	2,800 J	2,750 B				
Selenium	3.9 U	3.1 UJ	3.1 UJ	3.1 U	3.3 R	3.3 U	3.3 U	3.3 U				
Silver	0.30 U	0.40 U	0.40 U	0.40 U	1.5 B	0.5 U	0.5 U	0.5 U				
Sodium	18,700	17,000 J	18,000 J	16,400 J	23,800	19,300	19,500	22,700				
Thallium	2.2 B	1.8 U	1.8 U	1.8 U	1.5 UJ	2.7 J	1.5 UJ	1.5 UJ				
Vanadium	1.0 U	12.4 B	14.5 B	31.7 B	1.0 U	4.7 B	1.0 U	7.7 B				
Zinc	11.5 J	20.7	4.8 B	67.7 J	4.3 U	4.3 U	4.3 U	4.3 U				
<b>Volatile Organic Compounds (VOCs)</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL				
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL				
<b>Pesticides / PCBs</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL				

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Result shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for GW-07R**

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)											TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10			
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>				Insufficient Volume									
Aluminum	16.4 B	15.3 U	15.3 U	—	26.9 U	26.9 U	29.1 B	143 B	69 B	0.20 U		200	
Antimony	2.4 U	1.6 U	1.6 U	—	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0088 B	60		
Arsenic	2.9 B	2.5 U	2.5 U	—	3.6 U	3.6 U	3.6 UJ	3.6 UJ	4.2 B	0.0081 B	20	10	
Barium	93.2 B	88.0 J	59.3 B	—	41.8 B	54.6 B	47.0 B	67.2 B	41 B	0.075 BJ	1,000	200	
Beryllium	0.10 U	0.10 U	0.10 U	—	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.0050 U	5	5	
Cadmium	0.10 U	0.10 U	0.10 U	—	0.2 U	0.2 U	0.2 U	0.2 U	5.0 U	0.00051 B	5	5	
Calcium	165,000	175,000 J	270,000	—	191,000	245,000	292,000	228,000	178,000	224 J		5,000	
Chromium	0.3 U	2.0 B	0.2 U	—	2.5 B	0.4 U	0.4 UJ	2.7 B	10 U	0.010 U	11	10	
Cobalt	0.2 U	0.3 U	1.9 B	—	0.7 B	4.0 B	4.4 B	0.5 U	0.55 B	0.0028 B		50	
Copper	1.8 B	3.6 B	0.6 U	—	4.9 B	5.5 B	6.6 B	5.8 B	7.5 B	0.025 U	25	25	
Iron	8.5 U	8.1 U	419	—	244	562	2210	9.4 B	100 U	3.67	7,000	100	
Lead	2.6 B	2.9 B	1.2 U	—	1.6 UJ	2.8 B	1.6 U	3.6	2.8 J	0.0030 U	4.2	3	
Magnesium	25,900	30,200 J	45,600 J	—	32,500	42,100	51,900	39,000	31,700	38.5 J		5,000	
Manganese	164	0.3 B	2,780 J	—	251	2,340	3,170 J	236	100	1.65		15	
Mercury	0.10 U	0.10 UJ	0.10 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.20 U	0.00020 U	0.2	0.2	
Nickel	0.40 U	0.4 U	0.90 B	—	0.4 U	3.1 B	3.8 B	0.9 B	1.2 B	0.0042 B	96	40	
Potassium	2,250 B	1,620 B	2,660 B	—	1,720 B	1,830 B	2,690 B	1,210 B	1,000 B	1.97 B		5,000	
Selenium	3.9 U	3.1 U	3.1 U	—	3.3 UJ	3.3 UJ	3.3 U	3.3 U	5.0 U	0.0050 U	8.5	5	
Silver	0.30 U	0.4 U	0.50 B	—	1.4 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U	10	10	
Sodium	15,500	13,500 J	2,300 J	—	14,300	18,800	26,500	19,600	10,900	16.2		5,000	
Thallium	6.5 B	1.8 U	1.8 U	—	1.5 R	1.5 U	1.5 UJ	1.5 UJ	10 U	0.0048 BJ	40	10	
Vanadium	1.0 U	9.8 B	12.8 B	—	1.0 U	7.6 B	1.0 U	8.7 B	12 J	0.0064 B		50	
Zinc	11.3 B	17.1 B	1.1 B	—	4.3 U	4.3 U	4.3 U	4.3 U	20 U	0.020 U	86	20	
<b>Inorganics - Metals and Cyanide (Total)</b>													
Aluminum	115 J	77.7 B	1,220	—	263 J	76.5 B	780 J	104 B	484	0.20 U			
Antimony	2.4 U	1.6 U	1.6 U	—	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.060 U			
Arsenic	2.4 UJ	2.5 UJ	2.5 U	—	3.6 U	3.6 U	3.6 UJ	3.6 UJ	3.9 B	0.0095 B			
Barium	104 B	95.0 J	115.0 J	—	57.9 J	56.7 B	74.6 B	70.3 B	150 B	0.070 BJ			
Beryllium	0.10 U	0.10 U	0.10 U	—	2.3 U	2.3 U	2.3 U	2.3 U	0.13 B	0.0050 U			
Cadmium	0.10 U	0.10 U	0.10 UJ	—	0.2 U	0.2 U	0.2 U	0.2 U	5.0 U	0.00058 B			
Calcium	152,000	177,000 J	304,000 J	—	200,000	240,000	289,000	236,000	189,000	222.0 J			
Chromium	0.6 B	2.2 B	0.20 U	—	2.4 B	0.4 U	0.4 UJ	2.7 B	10 U	0.010 U			
Cobalt	0.2 U	0.3 U	2.9 B	—	0.6 B	3.6 B	5.5 B	0.5 U	2.7 B	0.0031 B			
Copper	7.0 B	5.7 B	0.60 U	—	7.2 B	6.3 B	8.7 B	6.7 B	22 B	0.023 B			
Cyanide	0.60 U	0.6 U	2.7 B	—	0.2 U	0.2 U	1.6 U	5.3 B	5.0	0.0050 U	10.0	10.0	
Iron	273	151	4740.0 J	—	434	1,090 J	7,910 J	527	8,300	2.28			
Lead	0.80 U	3.3	3.1	—	1.6 UJ	2.8 B	3.4 J	5.0 J	10 J	0.0026 B			
Magnesium	23,800	30,400 J	53,500 J	—	34,000	41,100	51,500	39,800	38,200	37.3 J			
Manganese	84.5	21.5	2,830 J	—	75.3	2280 J	3200	247	200	1.53			
Mercury	0.10 U	0.10 U	0.10 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.20 U	0.00020 U			
Nickel	0.40 U	0.40 U	4.3 B	—	0.4 U	2.8 B	4.5 B	0.5 B	7.5 B	0.0048 B			
Potassium	3,040 J	1,890 B	3,190 J	—	1,740 J	1,770 B	2,730 J	1,290 B	2,240 B	1.90 B			
Selenium	3.9 U	3.1 U	3.1 UJ	—	3.3 R	3.3 U	3.3 U	3.3 U	5.0 U	0.0050 U			
Silver	0.30 U	0.40 UJ	0.40 U	—	1.1 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U			
Sodium	16,300	13,700 J	24,800 J	—	14,600	18,100	25,600	20,000	10,400	15.7			
Thallium	2.5 B	2.0 B	1.8 U	—	1.5 UJ	1.5 U	1.5 UJ	1.5 UJ	10 U	0.0059 BJ			
Vanadium	1.0 U	11.6 B	13.8 B	—	1.0 U	9.0 B	1.0 U	8.4 B	18 B	0.0059 B			
Zinc	21.3 J	18.9 B	4.2 B	—	4.3 U	4.3 U	4.3 U	10.6 B	28	0.042			
<b>Volatile Organic Compounds (VOCs)</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NS			
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	BRL	BRL	BRL	—	BRL	BRL	BRL	BRL	BRL	NS			
<b>Pesticides / PCBs</b>	BRL	BRL	BRL	—	BRL	BRL	BRL	BRL	BRL	NS			

1) All results expressed in micrograms per liter (µg/L).

2) Standard Inorganic Data Qualifiers have been used.

3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.

4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.

5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ

6) — = No Sample Available (Well Dry or Insufficient Volume)

7) U = Indicates compound was analyzed for but not detected.

8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.

9) B = (Organics) Indicates the analyte was detected in the Method Blank.

10) UJ = A value less than the CRQL but greater than the MDL.

11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.

12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.

13) CRQL = Contract Required Quantitation Limit

14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.

15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.

17) NS-no sampling required for that event

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for GW-58**

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10		
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>												
Aluminum	15.4 U	15.3 U	15.3 U	15.3 U	26.9 U	26.9 U	60.7 B	419	59 B	0.20 U		200
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0037 B	60	60
Arsenic	2.4 U	2.5 U	2.5 UJ	5.6 B	3.6 U	3.6 U	3.6 UJ	3.6 UJ	3.6 J	0.0044 B	20	10
Barium	117 B	129 J	114 B	122 B	113 B	121 B	116 B	113 B	110 B	0.11 BJ	1,000	200
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	0.75 J	0.0050 U	5	5
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.8 B	0.4 B	0.4 B	5.0 U	0.00028 B	5	5
Calcium	97,800	107,000 J	107,000	105,000 J	101,000	101,000	101,000	100,000	98,600	96.3 J		5,000
Chromium	0.50 B	1.9 B	0.20 U	0.20 U	2.0 B	0.7 B	0.4 UJ	2.1 B	10 U	0.010 U	11	10
Cobalt	0.20 U	0.30 U	0.30 U	0.30 U	0.5 U	0.5 B	0.5 U	0.5 U	0.93 B	0.050 U		50
Copper	3.7 B	2.4 B	2.5 B	0.60 U	4.3 B	5.0 B	5.6 B	5.2 B	25 U	0.025 U	25	25
Iron	8.5 U	8.1 U	8.1 U	8.1 U	5.3 U	5.7 B	5.3 U	9.3 B	70 B	0.31	7,000	100
Lead	0.80 U	1.2 U	2.6 B	1.2 U	1.6 UJ	1.6 U	3.0 J	2.8 B	3.0 U	0.0030 U	4.2	3
Magnesium	28,700	33,100 J	31,700 J	31,600 J	29,600	30,000	31,200	31,800	30,100	27.2 J		5,000
Manganese	0.30 U	4.4 B	5.3 J	34.8	0.5 U	0.5 U	25.1 J	26.2	62 J	0.0034 B		15
Mercury	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.08 B	0.00020 U	0.2	0.2
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	0.4 U	3.1 B	0.0017 B	96	40
Potassium	3,020 B	3,660 B	3,210 B	3,800 J	3,270 B	3,380 B	3,840 B	3,820 B	3,740 B	3.07 B		5,000
Selenium	3.9 U	3.1 U	3.1 UJ	3.1 UJ	3.3 U	3.3 U	3.3 U	3.3 U	5.0 U	0.0050 U	8.5	5
Silver	0.30 U	0.40 U	0.40 U	0.40 U	0.5 U	0.5 U	0.5 U	0.5 U	1.5 B	0.010 U	10	10
Sodium	22,100	27,500 J	24,200 J	28,200 J	23,000	26,800	29,500	29,200	28,200	25.0		5,000
Thallium	5.6 B	1.8 U	2.1 B	1.8 U	1.5 R	4.5 J	1.5 UJ	1.5 UJ	5.7 B	0.0048 BJ	40	10
Vanadium	1.0 U	9.8 B	9.6 B	3.2 B	1.0 U	4.1 B	1.0 U	6.3 B	11 J	0.0043 B		50
Zinc	9.3 B	9.2 B	0.50 U	0.50 UJ	4.3 U	14.6 B	4.3 U	4.3 U	20 U	0.0075 B	86	20
<b>Inorganics - Metals and Cyanide (Total)</b>												
Aluminum	2,230 J	475	1188 B	1,390 J	284 J	265	1,140 J	1,230	1,090	0.20 B		
Antimony	60.0 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0037 B		
Arsenic	10.0 UJ	2.5 UJ	2.5 U	5.3 B	4.0 J	3.6 U	3.6 UJ	3.6 UJ	10 UJ	0.0043 B		
Barium	148 B	120 J	133 J	135 J	122 J	133 B	122 B	124 B	130 B	0.1100 BJ		
Beryllium	0.10 B	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.0050 U		
Cadmium	5.00 U	0.10 U	0.10 UJ	0.10 UJ	0.2 U	1.0 B	0.7 B	0.7 B	5.0 U	0.00019 B		
Calcium	120,000	95,600 J	124,000 J	114,000 J	109,000	110,000	108,000	109,000	112,000	96.3 J		
Chromium	5.0 B	2.9 B	0.20 U	0.90 B	2.3 B	2.0 B	0.4 UJ	2.6 B	10 U	0.010 U		
Cobalt	1.9 B	0.30 U	0.30 U	0.30 U	0.5 U	0.5 B	0.5 U	0.5 U	1.3 B	0.0012 B		
Copper	6.9 B	4.6 B	3.6 B	0.60 U	6.2 B	5.6 B	7.1 B	6.9 B	2.2 B	0.0013 B		
Cyanide	10.0 U	0.60 U	1.3 B	0.90 B	0.2 U	0.2 U	1.6 U	1.6 U	5.0 U	0.0050 U	10	10
Iron	5,710	1,260	859 J	2,890	769	615 J	1970 J	2750	2780	0.42		
Lead	1.1 J	1.2 U	4.2	3.0 UJ	1.6 UJ	1.6 U	3.7 J	3.7	2.6 B	0.0030 U		
Magnesium	34,000	30,000 J	35,100 J	33,000 J	31,500	32,100	31,800	32,000	32,400	27.1 J		
Manganese	147	45.4	30.2 J	92.0	24.2	16.1 J	56.7	78.9	86 J	0.019		
Mercury	0.20 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.20 U	0.00020 U		
Nickel	4.4 B	0.80 B	0.40 U	1.3 B	0.4 U	1.0 B	1.3 B	1.6 B	4.1 B	0.0031 B		
Potassium	3,920 J	3,430 B	3,450 J	3,750 J	3,340 J	3,480 B	3,490 J	3,530 B	3,740 B	2.81 B		
Selenium	5.0 U	31.0 U	3.1 UJ	3.1 U	3.3 R	3.3 U	3.3 U	3.3 U	5.0 U	0.0050 U		
Silver	10.0 U	0.40 UJ	0.40 U	0.40 U	0.5 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U		
Sodium	22,700	25,200 J	27,000 J	23,800 J	23,400	27,900	25,000	24,300	26,600	23.3		
Thallium	5.2 B	1.8 U	1.8 U	1.8 U	1.5 UJ	6.4 J	1.5 UJ	1.5 UJ	2.7 B	0.0020 BJ		
Vanadium	2.3 B	10.1 B	12.3 B	5.0 B	1.0 U	4.0 B	1.0 U	8.2 B	11 J	0.0055 B		
Zinc	27.4 J	15.1 B	0.50 U	0.50 UJ	4.3 U	4.3 U	4.3 U	4.3 U	8.2 B	0.0066 B		
<b>Volatile Organic Compounds (VOCs)</b>												
<b>Semi-Volatile Organic Compounds (SVOCs)</b>												
<b>Pesticides / PCBs</b>												

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ.
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.
- 17) NS-no sampling required for that event

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for GW-59**

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10		
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>												
Aluminum	808.0	15.3 U	15.3 U	15.3 U	29.9 B	26.9 U	61.7 B	121 B	50 B	0.12 B		200
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.060 U	60	60
Arsenic	2.4 U	2.5 U	2.5 U	4.6 J	3.6 U	3.6 U	3.6 UJ	3.6 UJ	5.1 B	0.0068 B	20	10
Barium	40.4 B	43.5 J	45,400 B	38.3 B	46.6 B	35.0 B	42.0 B	33.3 B	28 B	0.041 B	1,000	200
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.0050 UJ	5	5
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.2 U	0.2 U	0.2 U	5.0 U	0.00044 B	5	5
Calcium	153,000	155,000 J	208,000 U	189,000 J	191,000	180,000	204,000	163,000	159,000	179 J		5,000
Chromium	0.50 B	1.8 B	0.20 U	0.20 U	3.3 B	0.4 U	0.4 UJ	2.8 B	10 U	0.010 U	11	10
Cobalt	0.20 U	0.30 U	0.30 U	0.30 U	0.5 U	0.5 U	0.5 U	0.5 U	50 U	0.0019 B	50	50
Copper	4.2 B	2.9 B	3.3 B	0.60 U	5.4 B	5.9 B	6.9 B	4.9 B	7.0 B	0.025 U	25	25
Iron	17.9 B	8.1 U	8.1 U	53.0 B	5.3 U	5.3 U	24.8 B	100 U	0.41	7,000	100	
Lead	0.80 U	1.7 B	1.6 B	1.2 U	1.6 UJ	1.6 U	4.3 J	4.5*	2.9 J	0.0030 U	4.2	3
Magnesium	28,000	25,200 J	43,200 J	43,100 J	37,400	29,800	41,600	26,500	26,200	34.5 J		5,000
Manganese	0.30 U	0.20 U	0.20 UJ	0.20 U	0.5 U	0.5 U	0.5 UJ	0.5 U	15 U	0.034		15
Mercury	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.12 B	0.00020 U	0.2	0.2
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	0.4 U	1.2 B	0.0044 B	96	40
Potassium	13,000	11,100	17,800	12,200 J	16,700	19,700	18,900	15,500	11,100	13.8		5,000
Selenium	3.9 U	3.1 U	3.1 U	3.1 UJ	3.7 J	3.3 UJ	3.3 U	3.3 U	5.0 U	0.0050 U	8.5	5
Silver	0.30 U	0.40 U	0.50 B	0.40 U	0.9 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U	10	10
Sodium	60,800	41,800 J	95,500 J	90,500 J	83,100	60,700	105,000	51,700	46,600	81.7		5,000
Thallium	5.0 B	2.1 B	3.7 B	1.8 U	1.5 R	1.5 U	1.5 UJ	1.5 UJ	10 U	0.0052 BJ	40	10
Vanadium	1.0 U	7.4 B	14.0 B	3.2 B	1.0 U	4.9 B	1.0 U	7.4 B	11 J	0.0060 B		50
Zinc	21.7	12.3 B	0.50 U	0.50 UJ	4.3 U	7.3 B	4.3 U	4.3 U	20 U	0.020 U	86	20
<b>Inorganics - Metals and Cyanide (Total)</b>												
Aluminum	718 J	451	674	578 J	251 J	35.1 B	70.9 J	308	82 B	0.20 U		
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0037 B		
Arsenic	2.4 UJ	2.5 UJ	2.5 U	6.7 B	5.3 J	3.6 U	3.6 UJ	3.6 UJ	10 U	0.0085 B		
Barium	43.9 B	46.8 B	60.3 J	53.9 J	50.0 J	35.7 B	37.4 B	39.8 B	28 B	0.038 BJ		
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.0050 U		
Cadmium	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.2 U	0.2 U	0.2 U	0.2 U	5.0 U	0.00046 B		
Calcium	111,000	136,000 J	209,000 J	207,000 J	203,000	187,000	185,000	180,000	158,000	180 J		
Chromium	1.9 B	2.7 B	0.20 U	0.20 B	2.7 B	0.4 U	0.4 UJ	2.2 B	10 U	0.010 U		
Cobalt	0.90 B	0.50 B	1.1 B	0.30 U	0.5 U	0.5 U	0.5 U	0.5 U	50 U	0.0015 B		
Copper	12.2 B	4.8 B	4.8 B	0.60 U	7.3 B	8.2 B	6.8 B	7.1 B	7.3 B	0.025 U		
Cyanide	0.60 U	0.60 U	3.9 B	0.60 U	0.2 U	0.2 U	1.6 U	3.0 B	5.0 U	0.0027 B	10	10
Iron	2,160	1,440	2,430 J	1,620	671	202 J	86.0 J	854	30 B	0.23		
Lead	1.6 J	3.8	3.8 J	3.0 UJ	1.6 UJ	1.6 U	1.6 U	4.8 J	2.1 J	0.0030 U		
Magnesium	18,300	21,800 J	425,000 J	45,200 J	36,900	31,300	34,800	27,900	25,100	34.8 J		
Manganese	61.6	47.7	181 J	94.8	30.5	0.9 J	7.3 B	36.4	6.0 B	0.016		
Mercury	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 B	0.20 U	0.00020 U		
Nickel	1.4 B	1.2 B	1.5 B	0.90 B	0.4 U	0.4 U	0.4 U	0.4 U	40 U	0.0037 B		
Potassium	8,460 J	10,100	19,600 J	12,900 J	18,200 J	21,200	25,400 J	14,100	9,920	14.3		
Selenium	3.9 U	3.1 U	3.1 UJ	3.1 U	3.3 R	3.3 UJ	3.3 U	3.3 U	5.0 U	0.0050 U		
Silver	0.30 U	0.40 U	0.40 U	0.40 U	1.0 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U		
Sodium	28,600	36,800 J	95,300 J	93,600 J	77,900	61,800	86,500	54,800	41,800	81.8		
Thallium	4.3 B	1.8 U	1.8 J	1.8 U	1.5 UJ	1.5 U	1.5 UJ	1.5 UJ	10 U	0.0057 BJ		
Vanadium	1.0 U	7.2 B	9.3 B	5.5 B	1.0 U	7.3 B	1.0 U	6.9 B	8 J	0.0064 B		
Zinc	26.2 J	17.0 B	0.50 U	0.50 UJ	4.3 U	5.9 B	4.3 U	4.3 U	20 U	0.020 U		
<b>Volatile Organic Compounds (VOCs)</b>												
<b>Semi-Volatile Organic Compounds (SVOCs)</b>												
<b>Pesticides / PCBs</b>												

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ.
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- \* Field duplicate value of 2.8 was below Trigger Level.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.
- 17) NS-no sampling required for that event

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for GW-60**

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10			
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>			Insufficient Volume	Insufficient Volume						Sampling no longer required see note 16		
Aluminum	15.4 U	15.3 U	—	—	28.6 B	26.9 U	65.6 B	109 B			200	
Antimony	2.4 U	1.6 U	—	—	4.8 U	4.8 U	4.8 U	4.8 U		60	60	
Arsenic	2.4 U	2.5 U	—	—	3.6 U	3.6 U	3.6 UJ	3.6 UJ		20	10	
Barium	64.1 B	87.4 J	—	—	59.9 B	90.5 B	59.3 B	80.4 B		1,000	200	
Beryllium	0.10 U	0.10 U	—	—	2.3 U	2.3 U	2.3 U	2.3 U		5	5	
Cadmium	0.10 U	0.10 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U		5	5	
Calcium	160,000	124,000 J	—	—	153,000	259,000	139,000	244,000			5,000	
Chromium	1.2 B	1.4 B	—	—	2.7 B	0.8 B	0.4 UJ	3.8 B		11	10	
Cobalt	0.20 U	0.30 U	—	—	0.5 U	0.5 U	1.7 B	0.5 U			50	
Copper	3.80 B	3.6 B	—	—	5.7 B	8.9 B	6.1 B	8.3 B		25	25	
Iron	8.5 U	8.1 U	—	—	5.3 U	13.2 B	2,420	130		7,000	100	
Lead	0.80 U	2.9 B	—	—	1.6 UJ	2.2 B	2.4 J	3.6		4.2	3	
Magnesium	23,800	16,100 J	—	—	35,500	68,900	33,500	61,300			5,000	
Manganese	0.30 U	0.20 U	—	—	0.5 U	0.5 U	742 J	1.4 B			15	
Mercury	0.10 U	0.10 UJ	—	—	0.1 U	0.1 U	0.1 U	0.1 U		0.2	0.2	
Nickel	0.40 U	0.40 U	—	—	0.4 U	0.4 U	1.7 B	0.4 U		96	40	
Potassium	6,650	9,980	—	—	6,120	7,220	5,980	5,020			5,000	
Selenium	3.9 U	3.2 B	—	—	3.3 UJ	3.3 UJ	3.3 U	3.3 U		8.5	5	
Silver	0.30 U	0.40 U	—	—	1.2 B	0.5 U	0.5 U	0.5 U		10	10	
Sodium	15,100	7,300 J	—	—	11,900	20,100	9,840	19,300			5,000	
Thallium	4.3 B	1.8 U	—	—	1.5 R	1.5 U	1.5 UJ	1.5 UJ		40	10	
Vanadium	1.6 B	4.3 B	—	—	1.0 U	10.5 B	1.0 U	8.1 B			50	
Zinc	9.1 B	10.1 B	—	—	4.3 U	10.8 B	4.3 U	4.3 U		86	20	
<b>Inorganics - Metals and Cyanide (Total)</b>												
Aluminum	110 J	127 B	—	—	355 J	9,420	18,100 J	426				
Antimony	2.4 U	1.6 U	—	—	4.8 U	4.8 U	4.8 U	4.8 U				
Arsenic	2.4 UJ	2.5 U	—	—	3.6 U	3.6 U	3.6 UJ	3.6 UJ				
Barium	68.6 B	88.4 J	—	—	66.7 J	123 B	125 B	63.4 B				
Beryllium	0.10 U	0.10 U	—	—	2.3 U	2.3 U	2.3 U	2.3 U				
Cadmium	0.10 U	0.10 U	—	—	0.2 U	0.2 B	3.6 B	0.2 U				
Calcium	144,000	122,000 J	—	—	168,000	244,000	146,000	220,000				
Chromium	1.9 B	1.8 B	—	—	2.9 B	19.8	0.4 UJ	2.8 B				
Cobalt	0.20 U	0.30 U	—	—	0.5 U	8.2 B	18.5 B	0.5 U				
Copper	9.10 B	5.3 B	—	—	8.1 B	20.1 B	39.0 J	8.1 B				
Cyanide	0.60 U	0.60 U	—	—	218	0.2 U	—	4.8 B		10	10	
Iron	285	307	—	—	816	21,800 J	42,000 J	648				
Lead	0.80 UJ	1.5 B	—	—	1.6 UJ	10.9	29.4 J	3.8 J				
Magnesium	21,500	16,400 J	—	—	37400	65800	35100	47700				
Manganese	6.6 B	15.5	—	—	25	726 J	1,160	21.5				
Mercury	0.10 U	0.10 UJ	—	—	0.1 U	0.1 U	0.1 U	0.2 B				
Nickel	0.40 U	0.40 U	—	—	0.4 U	18.3 B	36.7 B	0.4 U				
Potassium	7,430 J	9,910	—	—	6,760 J	8,030	9,800 J	4,810 B				
Selenium	3.9 U	3.6 B	—	—	3.3 R	3.3 UJ	3.3 U	3.3 U				
Silver	0.30 U	0.40 U	—	—	0.6 B	0.5 U	0.5 U	0.5 U				
Sodium	13,200	7,450 J	—	—	12,700	17,500	6,900	16,600				
Thallium	2.7 B	1.8 U	—	—	1.5 UJ	1.5 U	1.5 UJ	1.5 UJ				
Vanadium	1.0 U	4.6 B	—	—	1.0 U	29.1 B	26.3 U	6.3 B				
Zinc	15.4 J	12.6 B	—	—	4.3 U	63.9	111	4.3 U				
<b>Volatile Organic Compounds (VOCs)</b>	BRL	BRL	—	—	BRL	BRL	BRL	BRL				
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	BRL	BRL	—	—	—	—	—	BRL				
<b>Pesticides / PCBs</b>	BRL	BRL	—	—	—	BRL	—	BRL				

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ.
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for GW-61**

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10			
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>												
Aluminum	266	15.3 U	32.4 B	26.9 U	26.9 U	26.9 U	37.7 B	200 U	0.2 U		200	
Antimony	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0093 B	60	60	
Arsenic	2.5 U	2.5 UJ	2.5 U	3.6 U	3.6 U	3.6 UJ	3.6 UJ	10 U	0.012	20	10	
Barium	25.6 J	63.3 B	28.7 B	19.1 B	21.2 B	24.1 B	31.3 B	18 B	0.025 BJ	1,000	200	
Beryllium	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.0050 U	5	5	
Cadmium	0.10 U	0.10 U	0.10 U	0.2 U	0.2 B	0.6 B	0.5 B	5.0 U	0.0011 B	5	5	
Calcium	252,000 J	222,000	322,000 J	469,000	471,000	296,000	332,000	421,000	374 J		5,000	
Chromium	3.4 B	0.20 U	0.2 U	4.9 B	0.8 B	0.4 UJ	3.7 B	10 U	0.010 U	11	10	
Cobalt	1.2 B	0.30 U	1.5 B	1.1 B	1.2 B	0.9 B	0.8 B	0.70 B	0.0035 B		50	
Copper	4.6 B	2.4 B	0.60 U	6.9 B	9.9 B	10.4 B	12.4 B	14 B	0.025 U	25	25	
Iron	1,660	31.2 B	713	645	17.9 B	5.3 U	1910	100 U	2.81	5,000	100	
Lead	3.3	2.0 B	1.2 U	1.6 UJ	2.1 B	5.1 U	3.6	2.7 J	0.0015 B	4.2	3	
Magnesium	51,400 J	54,800 J	74,400 J	93,200	101,000	65,400	79,000	99,100	91.2 J		5,000	
Manganese	291	227 J	881	433	328	409 J	425	86	0.51		15	
Mercury	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.20 U	0.00020 U	0.2	0.2	
Nickel	3.6 B	1.2 B	4.3 B	4.6 B	7.3 B	6.0 B	6.5 B	5.0 B	0.010 B	96	40	
Potassium	8,870	9,240	10,700 J	14,500	16,600	12,500	12,100	12,800	11.4		5,000	
Selenium	3.1 U	3.1 UJ	3.1 UJ	3.3 U	3.3 UJ	3.3 U	3.3 U	5.0 U	0.0050 U	8.5	5	
Silver	0.40 U	0.40 U	0.70 B	2.1 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U	10	10	
Sodium	49,500 J	78,000 J	98,200 J	66,100	74,300	72,000	92,800	71,000	112		5,000	
Thallium	1.8 U	2.7 B	1.8 U	1.5 R	1.5 U	1.5 UJ	1.5 UJ	10 U	0.0047 BJ	40	10	
Vanadium	13.5 B	12.1 B	5.4 B	1.0 U	12.5 B	1.0 U	10.8 B	16 J	0.0055 B		50	
Zinc	21.5	0.50 U	0.50 UJ	4.3 U	4.3 U	4.3 U	4.3 U	20 U	0.020 U	86	20	
<b>Inorganics - Metals and Cyanide (Total)</b>												
Aluminum	15.3 U	15.3 U	225 J	32.2 J	131.0 B	107.0 J	8620	47 B	0.20 U			
Antimony	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0098 B			
Arsenic	2.5 U	2.5 U	2.5 U	3.6 U	3.6 U	3.6 UJ	3.6 UJ	4.3 B	0.012			
Barium	24.4 J	34.6 J	37.2 J	17.5 J	20.1 B	25.1 B	122 B	16 B	0.026 BJ			
Beryllium	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.0050 U			
Cadmium	0.10 U	0.10 UJ	0.10 UJ	0.2 U	0.2 U	0.3 B	2.3 B	5.0 U	0.0010 B			
Calcium	292,000 J	334,000 J	312,000 J	457,000	443,000	340,000	401,000	396,000	349 J			
Chromium	3.9 B	0.20 U	0.20 U	4.7 B	1.1 B	0.4 UJ	0.4 U	10 U	0.010 U			
Cobalt	1.5 B	0.30 U	0.30 U	0.8 B	0.9 B	1.0 B	8.2 B	0.87 B	0.0031 B			
Copper	4.8 B	3.9 B	1.3 B	7.5 B	13.8 B	11.5 B	23.1 B	13 B	0.025 U			
Cyanide	0.60 U	1.0 B	0.60 U	196	0.2 U	1.6 U	1.9 B	5.0 U	0.0050 U	10	10	
Iron	1,390	133 J	934	161	1,080 J	925 J	32900	220	0.26			
Lead	2.4 B	1.2 U	3.0 UJ	1.6 UJ	2.7 B	2.7 J	16.9 J	2.4 J	0.0030 U			
Magnesium	63,700 J	66,000 J	65,000 J	89,300	92,100	74,100	96,900	89,800	78.9 J			
Manganese	486	240 J	106	336	253 J	418	896	78	0.12			
Mercury	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.2	0.20 U	0.00020 U			
Nickel	3.9 B	2.9 B	4.8 B	3.4 B	7.0 B	5.5 B	23.9 B	4.2 B	0.010 B			
Potassium	9,530	13,000 J	11,700 J	14,700 J	15,500	13,500 J	14,000	11,600	12.3			
Selenium	3.1 U	3.1 UJ	3.1 U	3.3 R	3.3 UJ	3.3 U	3.3 U	5.0 U	0.0050 U			
Silver	0.40 U	0.70 B	0.50 B	2.1 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U			
Sodium	61,400 J	51,700 J	65,000 J	57,000	67,900	83,800	94,500	51,700	81.2			
Thallium	1.8 U	2.0 B	1.8 U	1.5 U	1.5 U	1.5 UJ	1.5 UJ	10 U	0.0072 BJ			
Vanadium	18.1 B	13.0 B	5.6 B	1.0 U	14.4 B	1.0 U	20.4 B	13 J	0.0051 B			
Zinc	18.6 B	0.50 U	0.50 UJ	4.3 U	7.4 B	4.3 U	55.6	20 U	0.0049 B			
<b>Volatile Organic Compounds (VOCs)</b>												
<b>Semi-Volatile Organic Compounds (SVOCs)</b>												
<b>Pesticides / PCBs</b>												

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ.
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.
- 17) NS-no sampling required for that event

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for GW-62A**

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)									<b>TRIGGER LEVEL</b>	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10		
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>											
Aluminum	15.4 U	15.3 U	15.3 U	15.3 U	26.9 U	26.9 U	65.1 B	97.7 B			
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U		60	60
Arsenic	2.4 U	2.5 U	2.5 UJ	2.5 U	3.6 U	3.6 U	3.6 UJ	3.6 UJ		20	10
Barium	101 B	88.9 J	98.9 B	97.8 B	105 B	108 B	110 B	110 B		1,000	200
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U		5	5
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.7 B	0.6 B	0.8 B		5	5
Calcium	119,000	114,000 J	127,000	115,000 J	111,000	128,000	126,000	122,000			5,000
Chromium	0.40 B	2.5 B	0.20 U	0.20 U	2.9 B	0.4 U	0.4 UJ	2.8 B		11	10
Cobalt	0.20 U	0.30 U	0.30 U	0.30 U	0.5 U	0.5 U	0.5 U	0.5 U			50
Copper	4.6 B	4.7 B	3.5 B	0.60 U	6.1 B	7.5 B	7.5 B	14.4 B		25	25
Iron	8.5 U	8.1 U	8.1 U	8.1 U	5.3 U	5.3 U	20.8 B	121		7,000	100
Lead	0.80 U	2.8 B	1.3 B	1.2 U	1.6 UJ	2.9 B	1.9 J	19.9		4.2	3
Magnesium	44,000	40,700 J	46,300 J	41,100 J	41,200	43,800	43,700	43,300			5,000
Manganese	0.30 U	0.20 U	33.4 J	2.3 B	120	3.3 B	0.5 UJ	1.8 B			15
Mercury	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U		0.2	0.2
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	0.4 U		96	40
Potassium	7,220	6,200	7,300	6,740 J	7,180	6,470	6,670	6,710			5,000
Selenium	3.9 U	3.1 U	3.1 UJ	3.1 UJ	3.3 UJ	3.3 UJ	3.3 U	3.3 U		8.5	5
Silver	0.30 U	0.40 U	0.40 U	0.40 U	1.0 B	0.5 U	0.5 U	0.5 U		10	10
Sodium	103,000	96,300 J	106,000 J	101,000 J	104,000	102,000	103,000	104,000			5,000
Thallium	5.5 B	1.8 U	1.8 U	1.8 U	1.5 R	1.5 U	1.5 UJ	1.5 UJ		40	10
Vanadium	2.5 B	12.4 B	11.5 B	3.3 B	1.0 U	7.9 B	1.0 U	7.9 B			50
Zinc	7.9 B	14.4 B	0.50 U	0.50 UJ	4.3 U	9.1 B	4.3 U	4.3 U		86	20
<b>Inorganics - Metals and Cyanide (Total)</b>											
Aluminum	5,190 J	228	192 B	1,190 J	483 J	648	2,650 J	625			
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U			
Arsenic	2.4 UJ	2.5 UJ	2.5 U	4.0 B	3.6 U	3.6 U	3.6 UJ	3.6 UJ			
Barium	218	95.4 J	107 J	108 J	125 J	119 B	157 B	113 B			
Beryllium	0.20 B	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U			
Cadmium	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.2 U	0.8 B	1.3 B	1.0 B			
Calcium	166,000	117,000 J	134,000 J	119,000 J	127,000	128,000	138,000	129,000			
Chromium	15.3	3.3 B	0.20 U	1.6 B	3.9 B	3.2 B	0.4 UJ	3.5 B			
Cobalt	5.6 B	0.30 U	0.30 U	0.30 U	0.5 U	0.5 U	2.0 B	0.5 U			
Copper	14.2 B	6.1 B	6.0 B	1.1 B	7.8 B	11.9 B	12.8 B	13.8 B			
Cyanide	0.60 U	0.60 U	0.90 B	0.60 U	0.2 U	0.2 U	1.6 U	1.6 B		10.0	10.0
Iron	13,600	629	1,020 J	2,940	1,270	1,850 J	6,640 J	1,180			
Lead	5.9 J	2.0 B	3.3 J	3.0 UJ	1.6 UJ	2.7 B	6.2 J	3.6 J			
Magnesium	54,400	42,800 J	47,100 J	39,800	46,400	42,200	46,500	43,400			
Manganese	395	14.4 B	51.5 J	74.8	159	48.7 J	201.0	30.3			
Mercury	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.2			
Nickel	16.0 B	0.80 B	0.40 U	1.9 B	0.7 B	2.5 B	7.7 B	1.0 B			
Potassium	9,290 J	6,610	7,230 J	6,400 J	7,770 J	6,220	7,280 J	6,540			
Selenium	3.9 U	3.1 UJ	3.1 UJ	3.1 U	3.3 R	3.3 UJ	3.3 U	3.3 U			
Silver	0.30 U	0.40 U	0.40 U	0.40 U	1.0 B	0.5 U	0.5 U	0.5 U			
Sodium	113,000	102,000 J	105,000 J	96,500 J	11,000	99,400	102,000	99,700			
Thallium	3.9 B	1.8 U	1.8 UJ	1.8 U	1.5 UJ	1.5 U	1.5 UJ	1.5 UJ			
Vanadium	8.1 B	12.4 B	9.2 B	4.5 B	1.0 U	8.4 B	1.0 U	8.8 B			
Zinc	53.1 J	14.7 B	0.50 U	0.50 UJ	4.3 U	11.3 B	13.1 B	4.5 B			
<b>Volatile Organic Compounds (VOCs)</b>											
<b>Semi-Volatile Organic Compounds (SVOCs)</b>											
<b>Pesticides / PCBs</b>											

Notes:

- 1) All results expressed in micrograms per liter (µg/L)
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for GW-62B**

Compound	Quarterly Sampling Results (All Results Expressed in Units of mg/l)								Sampling no longer required see note 16	Trigger Level	CRQL
	Mar-08	Jun-08	##	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09			
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>											
Aluminum	200.0	U	15.9	U	32.9	B	215	26.9	U	—	—
Antimony	60.0	U	1.6	U	1.6	U	4.8	U	4.8	U	—
Arsenic	10.0	U	2.5	UJ	2.5	U	3.6	U	3.6	U	—
Barium	21.9	B	41.8	B	227		32.3	B	49.5	B	—
Beryllium	5.0	U	0.10	U	0.1	U	2.3	U	2.3	U	—
Cadmium	5.0	U	0.10	U	0.1	U	0.2	U	0.2	U	—
Calcium	239,000		273,000		310,000	J	248000		345000		—
Chromium	0.50	B	3.3	U	0.2	U	3.7	B	0.7	B	—
Cobalt	50.0	U	0.50	B	10.6	B	1.4	B	0.9	B	—
Copper	4.3	B	4.6	U	1.8	B	7.1	B	12.3	B	—
Iron	11.5	B	8.1		41.9	B	569		286		—
Lead	1.2	B	3.1	B	1.2	U	1.6	UJ	2.7	B	—
Magnesium	48,600		56,700	J	82,300	J	48400		69900		—
Manganese	15.0	U	223	J	2,700		127		454		—
Mercury	0.20	U	0.10	U	0.1	U	0.1	U	0.1	U	—
Nickel	40.0	U	4.6	B	19.5	B	1.3	B	5.4	B	—
Potassium	3,220	B	1,000		20,200	J	5430		8480		—
Selenium	5.0	U	3.1	J	3.1	UJ	3.3	UJ	3.3	U	—
Silver	0.30	B	0.40	B	0.5	B	1.1	B	0.5	U	—
Sodium	33,900		54,500	J	75,400	J	41800		69000		—
Thallium	3.4	B	1.8	U	1.8	U	1.5	R	1.5	U	—
Vanadium	1.7	B	16.0	B	4.7	B	1.0	U	9.9	B	—
Zinc	32.3		52.6		32.7	J	25.6		56.6		—
<b>Inorganics - Metals and Cyanide (Total)</b>											
Aluminum	1,610	J	1,320	B	—		—		—		—
Antimony	60.0	U	1.6	U	—		—		—		—
Arsenic	10.0	UJ	2.5	U	—		—		—		—
Barium	31.2	B	43.4	J	—		—		—		—
Beryllium	0.10	B	0.10	U	—		—		—		—
Cadmium	5.00	U	0.10	UJ	—		—		—		—
Calcium	242,000		270,000	J	—		—		—		—
Chromium	3.5	B	5.1	U	—		—		—		—
Cobalt	1.4	B	1.7	B	—		—		—		—
Copper	7.2	B	13.0	U	—		—		—		—
Cyanide	10.0	U	0.60	—	—		—		—		—
Iron	6,820		3,970	J	—		—		—		—
Lead	1.8	J	4.6	UJ	—		—		—		—
Magnesium	49,800		59,300	J	—		—		—		—
Manganese	155		461	J	—		—		—		—
Mercury	0.20	U	0.10	U	—		—		—		—
Nickel	3.1	B	8.3	B	—		—		—		—
Potassium	3,680	J	13,100	J	—		—		—		—
Selenium	5.0	U	3.1	J	—		—		—		—
Silver	10.0	U	0.40	B	—		—		—		—
Sodium	34,000		59,500	J	—		—		—		—
Thallium	2.3	B	1.8	UJ	—		—		—		—
Vanadium	50.0	U	18.2	B	—		—		—		—
Zinc	710	J	80.5	—	—		—		—		—
<b>Volatile Organic Compounds (VOCs)</b>											
<b>Semi-Volatile Organic Compounds (SVOCs)</b>											
<b>Pesticides / PCBs</b>											

Notes:

- 1) All results expressed in micrograms per liter ( $\mu\text{g/L}$ ).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for GW-63**

Compound	Quarterly Sampling Result (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10			
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>												
Aluminum	15.3 U	15.3 U	583	38.6 B	26.9 U	32.1 B	144 B	19 B	0.20 U		200	
Antimony	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0087 B	60	60	
Arsenic	2.5 U	2.5 UJ	2.5 U	3.6 U	4.4 B	3.6 UJ	3.6 UJ	6.0 B	0.0076 B	20	10	
Barium	32.0 J	46.4 B	43.4 B	27.1 B	29.7 B	33.2 B	36.7 B	29 B	0.031 BJ	1,000	200	
Beryllium	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.0050 U	5	5	
Cadmium	0.10 U	0.10 U	0.10 U	0.2 U	0.6 B	0.2 U	0.2 B	5.0 U	0.00059 B	5	5	
Calcium	266,000 J	343,000	290,000 J	336,000	238,000	227,000	224,000	284,000	250 J		5,000	
Chromium	3.6 B	0.20 U	0.20 U	4.9 B	0.9 B	0.4 UJ	2.7 B	10 U	0.010 U	11	10	
Cobalt	0.30 U	0.60 B	0.40 B	0.5 U	0.8 B	1.9 B	0.5 U	50 U	0.0050 B		50	
Copper	4.2 B	0.60 U	1.3 B	7.0 B	7.9 B	7.8 B	8.2 B	12 B	0.025 U	25	25	
Iron	265	8.1 U	1,440	5.3 U	5.3 U	6.2 B	120	10 U	0.51	7,000	100	
Lead	1.2 B	1.2 U	1.2 U	1.6 UJ	2.8 B	2.4 J	1.6 U	1.5 J	0.0030 U	4.2	3	
Magnesium	65,600 J	81,100 J	70,200 J	80,000	54,800	52,100	52,100	71,100	59.6 J		5,000	
Manganese	1,470	1,520 J	832	12.2 B	507	1,740 J	639	17	1.78		15	
Mercury	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.07 B	0.00020 U	0.2	0.2	
Nickel	2.0 B	0.50 B	3.1 B	0.4 U	2.4 B	2.1 B	1.0 B	40 U	0.0062 B	96	40	
Potassium	5,390	7,500	6,840 J	5,300	5,820	6,810	6,320	4,440 B	5.08		5,000	
Selenium	3.1 U	4.7 J	3.4 J	4.7 J	3.3 U	3.3 U	3.3 U	5.0 U	0.0050 U	8.5	5	
Silver	0.40 U	0.60 B	0.40 U	1.7 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U	10	10	
Sodium	40,100 J	65,700 J	65,200 J	46,000	38,300	46,500	34,000	31,700	47.3		5,000	
Thallium	1.8 U	1.8 U	1.8 U	1.5 R	2.1 J	1.5 UJ	1.5 U	10 U	0.010 UJ	40	10	
Vanadium	18.5 B	14.1 B	4.5 B	1.0 U	5.5 B	1.0 U	7.9 B	16 J	0.0051 B		50	
Zinc	14.3 B	0.50 U	0.50 UJ	4.3 U	4.3 U	4.3 U	4.3 U	20 U	0.020 U	86	20	
<b>Inorganics - Metals and Cyanide (Total)</b>												
Aluminum	3,550	882	5,080 J	3,190 J	1,970	5,580 J	760	200 U	0.15 B			
Antimony	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.00710 B			
Arsenic	2.5 UJ	4.7 B	5.4 B	5.9 J	3.6 U	3.6 UJ	3.6 UJ	10 U	0.0036 B			
Barium	49.7 J	52.0 J	70.3 J	42.1 J	36.0 B	68.5 B	41.0 B	28 B	0.032 BJ			
Beryllium	0.20 B	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.0050 U			
Cadmium	0.10 U	0.10 UJ	0.10 UJ	0.2 U	0.9 B	1.2 B	0.3 B	5.0 U	0.00052 B			
Calcium	267,000 J	348,000 J	355,000	349,000	230,000	252,000	231,000	250,000	230 J			
Chromium	8.4 B	0.20 U	4.1 B	8.4 B	3.5 B	0.4 UJ	3.2 B	10 U	0.010 U			
Cobalt	2.5 B	0.90 B	4.6 B	1.9 B	1.5 B	5.9 B	1.2 B	50 U	0.0044 B			
Copper	11.1 B	3.1 B	9.2 B	14.0 B	9.8 B	17.1 B	9.5 B	11 B	0.025 U			
Cyanide	0.60 U	1.90 B	0.70 B	0.2 U	0.2 U	1.6 U	1.6 U	7.6	0.0050 U	10	10	
Iron	7,590	2,360 J	11,200	6,770	3,100 J	13,800 J	1,730	100 J	0.48			
Lead	5.7	1.4 J	5.6 J	3.1 J	3.4	10.6 J	5.7 J	1.6 B	0.0030 U			
Magnesium	64,600 J	82,700 J	83,600 J	82,400	53,400	58,900	52,700	61,600	51.9 J			
Manganese	1,060	687 J	986	331	497 J	1,460	705	13 B	1.40			
Mercury	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.20 U	0.00020 U			
Nickel	8.1 B	2.2 B	11.6 B	4.4 B	4.5 B	12.9 B	1.9 B	40 U	0.0066 B			
Potassium	6,250	7,600 J	8,170 J	5,990 J	6,350	8,430 J	6,610	4,170 B	6.07			
Selenium	3.1 UJ	3.1 UJ	3.1 U	3.3 R	3.3 U	3.3 U	3.3 U	5.0 U	0.0050 U			
Silver	0.40 U	0.40 U	0.40 U	2.2 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U			
Sodium	36,600 J	65,400 J	66,300 J	46,200	35,700	43,900	33,700	27,500	42.3			
Thallium	1.8 U	1.8 UJ	1.8 U	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	10 U	0.0053 BJ			
Vanadium	25.6 B	12.0 B	13.8 B	1.0 U	7.9 B	1.0	7.9 B	11 J	0.0054 B			
Zinc	38.5	0.50 U	14.7 J	15.5 B	6.9 B	28.4	4.3 U	20 U	0.020 U			
<b>Volatile Organic Compounds (VOCs)</b>												
<b>Semi-Volatile Organic Compounds (SVOCs)</b>												
<b>Pesticides / PCBs</b>												

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ.
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.
- 17) NS-no sampling required for that event

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for GW-64**

Quarterly Sampling Result (All Results Expressed in Units of µg/l)											
Compound	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Trigger Level	CRQL
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>											
Aluminum	15.4 U	15.3 U	15.3 U	70.3 B	26.2 U	26.9 U	58 B	96.7 B			
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U		60	60
Arsenic	2.4 U	2.5 U	2.5 U	5.8 B	3.6 U	3.6 U	3.6 UJ	3.6 UJ		20	10
Barium	43.1 B	48.6 J	48.4 B	43.1 B	41.5 B	47.5 B	44.5 B	42.2 B		1,000	200
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U		5	5
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.2 U	0.2 U	0.2 U		5	5
Calcium	166,000	151,000 J	194,000	181,000 J	174,000	182,000	170,000	173,000			5,000
Chromium	0.4 B	3.3 B	0.20 U	0.20 U	3.8 B	0.6 B	0.4 UJ	3.4 B		11	10
Cobalt	1.00 B	2.0 B	0.40 B	0.30 U	0.5 U	0.6 B	0.5 U	0.5 U			50
Copper	2.8 B	3.5 B	0.60 B	0.60 U	5.7 B	7.3 B	8.0 B	7.7 B		25	25
Iron	8.5 U	8.1 U	8.1 U	160	5.3 U	46.8 B	21 B	213		7,000	100
Lead	0.80 U	3.2	1.2 U	1.2 U	1.6 UJ	1.6 U	1.7 J	4.3		4.2	3
Magnesium	54,000	51,500 J	62,900 J	55,100 J	54,500	56,600	50,500	526,000			5,000
Manganese	1150	2,080	619.0 J	611	398	983	90.6 J	79.3			15
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U		0.2	0.2
Nickel	2.9 B	4.6 B	4.0 B	2.8 B	0.7 B	2.7 B	0.9 B	1.1 B		96	40
Potassium	12,400	17,100	17,100	7,600 J	9,160	12,700	5,980	6,390			5,000
Selenium	3.9 U	3.1 U	3.1 U	3.1 UJ	3.7 J	3.3 UJ	3.3 U	3.3 U		8.5	5
Silver	0.30 U	0.40 U	0.50 B	0.40 U	0.8 B	0.5 U	0.5 U	0.5 U		10	10
Sodium	39,400	41,300 J	52,900 J	45,900 J	36,800	42,500	32,700	33,500			5,000
Thallium	2.9 B	1.8 U	1.8 U	1.8 U	1.5 R	1.5 U	1.5 UJ	1.5 UJ		40	10
Vanadium	3.2 B	14.3 B	13.6 B	3.5 B	1.0 U	8.7 B	1.0 U	9.4 B			50
Zinc	7.4 B	10.2 B	0.50 U	0.50 UJ	4.3 U	4.3 U	4.3 U	4.3 U		86	20
<b>Inorganics - Metals and Cyanide (Total)</b>											
Aluminum	1,730 J	583	333	6670 J	135 J	38.8 B	881.0 J	536			
Antimony	2.4 UJ	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U			
Arsenic	2.4 UJ	2.5 UJ	2.5 U	2.5 B	5.4 J	3.6 U	3.6 UJ	3.6 UJ			
Barium	39.7 B	56.2 J	49.3 J	62.5 B	44.7 J	49.0 B	46.0 B	44.1 B			
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U			
Cadmium	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.2 U	0.2 U	0.3 B	0.3 B			
Calcium	228,000	167,000 J	206,000 J	198,000 J	195,000	183,000	174,000	178,000			
Chromium	2.3 B	4.8 B	0.20 U	8.4 B	3.6 B	0.9 B	0.4 UJ	3.6 B			
Cobalt	2.4 B	3.8 B	1.6 B	7.9 B	1.1 B	0.5 U	1.1 B	0.5 U			
Copper	5.6 B	5.2 B	1.1 B	4.8 B	10.0 B	7.3 B	8.4 B	7.9 B			
Cyanide	0.60 B	3.0 B	2.1 B	1.4 B	0.2 U	0.2 U	1.6 U	1.6 U		10	10
Iron	2,690	2,030	1,300 J	14,500	405	1,160 J	2,330 J	1,250			
Lead	0.8 UJ	1.8 B	2.9 J	3.3 J	1.6 UJ	2.2 B	4.1 J	4.1 J			
Magnesium	64,800	56,700 J	66,000 J	59,300 J	61,600	55,900	49,400	52,800			
Manganese	1,200	2,690	793 J	1,330	646	867 J	695	233			
Mercury	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U			
Nickel	4.4 B	7.0 B	6.3 B	13.9 B	2.2 B	1.7 B	2.6 B	0.6 B			
Potassium	10,400 J	20,800	20,400 J	9,480 J	12,500 J	11,900	6,440 J	6,700			
Selenium	3.9 U	3.1 UJ	3.1 UJ	3.1 U	3.3 R	3.3 UJ	3.3 U	3.3 U			
Silver	0.30 U	0.40 U	0.40 U	0.40 U	1.0 B	0.5 U	0.5 U	0.5 U			
Sodium	38,200	47,400 J	59,000 J	45,300 J	44,200	41,000	32,500	33,700			
Thallium	2.7 B	1.8 U	1.8 UJ	1.8 U	1.5 UJ	1.5	1.5 UJ	1.5 UJ			
Vanadium	1.0 U	18.3 B	9.2 B	12.8 B	1.0 U	7.5	1.0 U	8.4 B			
Zinc	22.3 J	14.0 B	0.50 U	14.7 J	4.3 U	13.9	4.3 U	4.3 U			
<b>Volatile Organic Compounds (VOCs)</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
<b>Pesticides / PCBs</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

- 1) All results expressed in micrograms per liter (µg/L)
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Switch to different format for fourth quarter 2007
- 17) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for GW-65**

Compound	Quarterly Sampling Results (All Results Expressed in Units of $\mu\text{g/l}$ )										TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10			
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>			Insufficient Volume			Insufficient Volume						
Aluminum	15.4 U	88.5 B	—	38.2 B	26.9 U	—	105.0 B	110 B	6.07		200	
Antimony	2.4 U	1.6 U	—	4.8 U	4.8 U	—	4.8 U	60 U	0.0062 B	60	60	
Arsenic	2.4 UJ	2.5 U	—	3.6 U	3.6 U	—	3.6 UJ	10 U	0.018	10	10	
Barium	31.0 B	28.5 J	—	19.3 B	20.3 B	—	21 B	17 B	0.041 BEJ	1,000	200	
Beryllium	0.10 U	0.10 U	—	2.3 U	2.3 U	—	2.3 U	5.0 UJ	0.002 B	5	5	
Cadmium	0.10 U	0.10 U	—	0.2 U	0.5 B	—	0.3 B	5.0 U	0.0013 B	5	5	
Calcium	169,000	190,000 J	—	187000	204000	—	201,000	160,000	240.0 J		5,000	
Chromium	0.30 U	6.4 B	—	7.7 B	2.8 B	—	6.7 B	10 U	0.042 B	11	10	
Cobalt	0.20 U	0.3 U	—	0.5 U	0.5 U	—	0.5 U	50 U	0.010 B		50	
Copper	1.3 B	3.2 B	—	5.1 B	9.3 B	—	10.6 B	13 B	0.0066 B	25	25	
Iron	124	8.1 U	—	5.3 U	5.9 B	—	283	110	13.8	5,000	100	
Lead	0.80 UJ	2.3 B	—	1.6 UJ	2.3 B	—	4.8 U	2.3 J	0.0073	4.2	3	
Magnesium	108,000	138,000 J	—	139000	143000	—	138,000	73,400	143 J		5,000	
Manganese	0.30 U	0.20 U	—	0.5 U	0.5 U	—	0.5 U	4.8 B	0.38		15	
Mercury	0.10 U	0.10 UJ	—	0.1 U	0.1 U	—	0.1 U	0.20 U	0.00020 U	0.2	0.2	
Nickel	0.40 U	0.40 U	—	0.4 U	0.4 U	—	0.4 U	1.5 B	0.021 B	96	40	
Potassium	3,870 B	3980.0 B	—	4220 B	4400 B	—	4,930 B	2,760 B	5.20		5,000	
Selenium	3.9 U	3.1 U	—	5.0 J	3.3 U	—	3.3 U	5.0 U	0.0050 U	8.5	5	
Silver	0.30 U	0.40 U	—	1.1 B	0.5 U	—	0.5 U	10 U	0.010 U	10	10	
Sodium	30,000	31800.0 J	—	33400	34100	—	33,700	24,300	30.3		5,000	
Thallium	3.8 B	1.8 U	—	1.5 R	3.0 J	—	1.5 UJ	10 U	0.0048 BJ	40	10	
Vanadium	1.0 U	29.1 B	—	1.0 U	16.2 B	—	15.7 B	14 J	0.012 B		50	
Zinc	9.4 B	14.4 B	—	4.3 U	4.3 U	—	4.3 U	20 U	0.037	86	20	
<b>Inorganics - Metals and Cyanide (Total)</b>												
Aluminum	2,610	2,450	—	1,200 J	5,400	13,900 J	3,450	250	6.07			
Antimony	60.0 U	1.6 U	—	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0062 B			
Arsenic	10.0 UJ	2.5 UJ	—	3.6 U	3.6 U	3.6 UJ	3.6 UJ	10 U	0.018			
Barium	48.3 B	40.6 J	—	25.7 J	43.0 B	79.3 B	35.5 B	20 B	0.041 BEJ			
Beryllium	0.10 B	0.10 U	—	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.00022 B			
Cadmium	5.00 U	0.10 U	—	0.2 U	1.4 B	2.6 B	1.2 B	5.0 U	0.0013 B			
Calcium	181,000	191,000 J	—	196,000	217,000	263,000	208,000	168,000	240 J			
Chromium	6.7 B	12.5	—	9.8 B	13.0	3.5 J	7.2 B	10 U	0.0042 B			
Cobalt	2.5 B	2.5 B	—	1.7 B	5.0 B	16.2 B	3.3 B	50 U	0.010 B			
Copper	6.7 B	9.1 B	—	10.6 B	18.2 B	32.9	18.1 B	14 B	0.0066 B			
Cyanide	10.0 U	0.60 U	—	0.2 U	0.2 U	—	—	16.8	0.0020 B	10	10	
Iron	7,680	7,060	—	3,030	8,410 J	38,400 J	9,320	590 J	13.8			
Lead	4.4 J	7.7	—	1.6 UJ	8.0	22.4 J	9.3 J	3.2	0.0073			
Magnesium	114,000	139,000 J	—	141,000	146,000	159,000	135,000	72,600	143 J			
Manganese	232	192	—	103	360 J	1010	293	20	0.38			
Mercury	0.20 U	0.10 UJ	—	0.1 U	0.1 U	0.1 U	0.2	0.20 U	0.00020 U			
Nickel	5.9 B	4.7 B	—	1.9 B	8.9 B	35.9 B	9.9 B	40 U	0.021 B			
Potassium	4,630 J	4,740 B	—	4,750 J	6,360	8,500 E	5,810	2,820 B	5			
Selenium	5.0 U	3.1 U	—	3.3 R	3.3 U	3.3 U	3.3 U	5.0 U	0.0050 U			
Silver	10.00 U	0.40 U	—	1.3 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U			
Sodium	31,600	32,500 J	—	34,900	35,200	36,100	32,500	25,100	30.3			
Thallium	4.1 B	2.5 B	—	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	10 U	0.0048 BJ			
Vanadium	4.5 B	34.3 B	—	1.0 U	25.1 B	1.0 U	14.1 B	13 J	0.012 B			
Zinc	31.5 J	30.7	—	4.3 U	19.7 U	83.3	16.4 B	20 U	0.037			
<b>Volatile Organic Compounds (VOCs)</b>	BRL	BRL	—	BRL	BRL	BRL	—	BRL	—			
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	BRL	—	—	—	—	—	—	BRL	—			
<b>Pesticides / PCBs</b>	BRL	—	—	—	—	—	—	BRL	—			

Notes:

- 1) All results expressed in micrograms per liter ( $\mu\text{g/L}$ ).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ.
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for GW-24**

Quarterly Sampling Results (All Results Expressed in Units of µg/l)											
Compound	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Trigger Level	CRQL
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>											
Aluminum	15.6 B				35.3 B						200
Antimony	2.4 U				4.8 U					60	60
Arsenic	3.7 B				5.0 J					20	10
Barium	86.7 B				101 B					1,000	200
Beryllium	0.10 U				2.3 U					5	5
Cadmium	0.10 U				0.2 U					5	5
Calcium	119,000				122000						5,000
Chromium	0.30 U				2.1 B					11	10
Cobalt	0.20 U				0.5 U						50
Copper	1.6 B				4.9 B					25	25
Iron	514.0				984					7,000	100
Lead	1.80 B				1.6 UJ					4.2	3
Magnesium	25,900				30000						5,000
Manganese	96.1				232						15
Mercury	0.10 U				0.1 U					0.2	0.2
Nickel	0.40 U				0.4 U					96	40
Potassium	2,520 B				3640 B						5,000
Selenium	3.9 U				3.3 U					8.5	5
Silver	0.30 U				0.5 U					10	10
Sodium	15,700 B				101000						5,000
Thallium	6.7 B				1.5 R					40	10
Vanadium	1.0 U				1.0 U						50
Zinc	12.5 B				4.3 U					86	20
<b>Inorganics - Metals and Cyanide (Total)</b>											
Aluminum	4,870 J				363 J						
Antimony	2.4 U				4.8 U						
Arsenic	2.4 UJ				4.3 J						
Barium	109 B				105 J						
Beryllium	0.20 B				2.3 U						
Cadmium	0.10 U				0.2 U						
Calcium	171,000				135000						
Chromium	8.2 B				3.2 B						
Cobalt	5.0 B				0.5 U						
Copper	9.9 B				5.6 B						
Cyanide	1.30 B				0.7 B					10	10
Iron	11,600				1900						
Lead	4.3 J				1.6 UJ						
Magnesium	35,000				33000						
Manganese	420				261						
Mercury	0.10 U				0.1 U						
Nickel	9.4 B				0.4 U						
Potassium	4,020 J				3780 J						
Selenium	3.9 U				3.3 R						
Silver	0.30 U				0.6 B						
Sodium	15,100				93800						
Thallium	1.9 B				1.5 UJ						
Vanadium	6.9 B				1.0 U						
Zinc	44.9 J				4.3 U						
<b>Volatile Organic Compounds (VOCs)</b>	BRL				BRL						
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	BRL				BRL						
<b>Pesticides / PCBs</b>	BRL				BRL						

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for GW-26**

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)									TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Sep-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10		
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>	Annual	Not Sampled	Not Sampled	Annual	Not Sampled	Not Sampled	Not Sampled	Semi-annual	Semi-annual		
Aluminum	19.0 B			26.9 U				470	0.20		200
Antimony	2.4 U			4.8 U				60 U	0.060	60	60
Arsenic	2.4 U			3.6 U				10 U	0.0038	20	10
Barium	290.0			780				300	0.60 J	1,000	200
Beryllium	0.10 U			2.3 U				5.0 UJ	0.0050	5	5
Cadmium	0.10 U			0.2 U				5.0 U	0.00048	5	5
Calcium	79,200			67900				72000	61.6 J		5,000
Chromium	0.30 U			2.6 B				10 U	0.010	11	10
Cobalt	0.40 B			0.5 U				0.92 B	0.0017		50
Copper	1.8 B			5.5 B				8.6 B	0.025	25	25
Iron	42.8 B			68.4 B				100 U	0.18	7,000	100
Lead	1.10 B			1.6 UJ				3.0 J	0.0030	4.2	3
Magnesium	40,900			36,100				38,100	32.3 J		5,000
Manganese	64.1			77.7				52	0.092		15
Mercury	0.10 U			0.1 U				0.20 U	0.00020	0.2	0.2
Nickel	0.40 U			0.4 U				40 U	0.0036	96	40
Potassium	16,300			20,100				16,300	17.6		5,000
Selenium	3.9 U			3.3 UJ				5.0 U	0.0050	8.5	5
Silver	0.30 U			0.5 U				10 U	0.010	10	10
Sodium	142,000			195,000				144,000	189		5,000
Thallium	5.0 B			1.5 R				10 U	0.0045 J	40	10
Vanadium	1.0 U			1 U				13 J	0.0057		50
Zinc	7.1 B			4.3 U				20 U	0.020	86	20
<b>Inorganics - Metals and Cyanide (Total)</b>											
Aluminum	192 J			92.4 J				390	0.52		
Antimony	2.4 U			4.8 U				60 U	0.060		
Arsenic	2.4 UJ			3.6 U				10 U	0.011		
Barium	287			859 J				300	0.62 EJ		
Beryllium	0.10 U			2.3 U				5.0 UJ	0.0050		
Cadmium	0.10 U			0.2 U				5.0 U	0.00045		
Calcium	82,700			73,600				77,800	67.2 J		
Chromium	1.1 B			2.8 B				10 U	0.010		
Cobalt	1.0 B			0.5 U				50 U	0.0032		
Copper	5.6 B			6.0 B				17 B	0.025		
Cyanide	0.60 U			0.2 U				7.4		10	10
Iron	716			465				270.0	2.22		
Lead	0.80 UJ			1.6 U				4.1 J	0.0030		
Magnesium	42,300			39200				40600	32.8 J		
Manganese	80.2			88.5				55.0	0.13		
Mercury	0.10 U			0.1 U				0.20 U	0.00020		
Nickel	0.70 B			0.4 U				1.7 B	0.0059		
Potassium	17,100 J			21,900 J				17,400	17.7		
Selenium	3.9 U			3.3 R				5.0 U	0.0050		
Silver	0.30 U			0.5 U				10 U	0.010		
Sodium	139,000			213,000				154,000	187		
Thallium	3.9 B			1.5 UJ				10 U	0.0021 J		
Vanadium	1.0 U			1.0 U				12 J	0.0069		
Zinc	15.4 J			4.3 U				20 U	0.020		
<b>Volatile Organic Compounds (VOCs)</b>	BRL			BRL				BRL	Not sampled		
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	BRL			BRL				BRL	Not Sampled		
<b>Pesticides / PCBs</b>	BRL			BRL				BRL	Not Sampled		

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for GW-30**

Compound	Quarterly Sampling Results (All Results Expressed in Units of mg/l)									Mar-10	TRIGGER LEVEL	CRQL	
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09					
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>	Annual	Not Sampled	Not Sampled	Not Sampled	Annual	Not Sampled	Not Sampled	Not Sampled		Sampling no longer required; see note 16			
Aluminum	15.4 U				26.9 U						200		
Antimony	2.4 U				4.8 U						60		
Arsenic	2.6 B				3.6 U						20		
Barium	188.0 B				439						1,000		
Beryllium	0.10 U				2.3 U						5		
Cadmium	0.10 U				0.2 U						5		
Calcium	58,000				68900						5,000		
Chromium	0.30 B				2.5 B						11		
Cobalt	0.20 U				0.5 U						50		
Copper	2.2 B				4.9 B						25		
Iron	127.0				342						7,000		
Lead	0.80 U				1.6 UJ						4.2		
Magnesium	28,300				31400						5,000		
Manganese	17.3				30.8						15		
Mercury	0.10 U				0.1 U						0.2		
Nickel	0.70 B				0.4 U						96		
Potassium	12,200				12800						5,000		
Selenium	3.9 U				3.3 UJ						8.5		
Silver	0.30 U				0.5 B						10		
Sodium	138,000				144000						5,000		
Thallium	4.5 B				1.5 R						40		
Vanadium	1.0 U				1.0 U						50		
Zinc	7.7 B				4.3 U						96		
<b>Inorganics - Metals and Cyanide (Total)</b>													
Aluminum	15.4 UJ				57.7 J								
Antimony	2.4 U				4.8 U								
Arsenic	2.4 UJ				5.1 J								
Barium	201.0				495.0 J								
Beryllium	0.10 U				2.30 U								
Cadmium	0.10 U				0.20 U								
Calcium	61,100				74,000								
Chromium	0.50 B				2.00 B								
Cobalt	0.20 U				0.50 U								
Copper	4.3 B				5.4 B								
Cyanide	0.60 U				0.20 U								
Iron	303				622								
Lead	0.80 UJ				1.60 UJ								
Magnesium	29,600				34,200								
Manganese	22.4				36.8								
Mercury	0.10 U				0.10 U								
Nickel	0.40 U				0.40 U								
Potassium	13,400 J				13,700 J								
Selenium	3.9 U				3.3 R								
Silver	0.30 U				0.70 B								
Sodium	145,000				153,000								
Thallium	3.9 B				1.5 UJ								
Vanadium	1.2 B				1.0 U								
Zinc	10.3 J				4.3 U								
<b>Volatile Organic Compounds (VOCs)</b>	BRL				BRL								
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	BRL				BRL								
<b>Pesticides / PCBs</b>	BRL				BRL								

Notes:

- 1) All results expressed in micrograms per liter ( $\mu\text{g/L}$ ).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-50**

Compound	Quarterly Sampling Result (All Results Expressed in Units of µg/l)										CRQL
	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10	Trigger Level	
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>		No Flow								No Flow	
Aluminum	26.0 B	—	15.3 U	34.1 B	26.9 U	26.9 U	57.1 B	200 J	—		200
Antimony	1.6 U	—	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	—	60	60
Arsenic	2.5 U	—	10.0 B	3.6 U	3.6 U	3.6 UJ	3.6 UJ	10 U	—	20	10
Barium	44.8 B	—	30.9 B	45.1 B	47.9 B	38.5 B	40.5 B	42 B	—	1,000	200
Beryllium	0.10 U	—	0.10 U	2.30 U	2.30 U	2.3 U	2.3 U	5.0 U	—	5	5
Cadmium	0.10 U	—	0.10 U	0.20 U	0.20 U	0.2 U	0.2 U	5.0 U	—	5	5
Calcium	80,600	—	70,500 J	96,600	77,100	66,400 J	96,300	92,700	—		5,000
Chromium	1.4 B	—	0.20 U	1.90 B	0.90 B	0.7 B	2.3 B	0.49 B	—	11	10
Cobalt	0.30 U	—	0.30 U	0.50 U	0.60 B	0.5 U	0.5 U	50 U	—		50
Copper	2.3 B	—	0.60 U	5.60 B	6.00 B	3.0 B	5.4 B	5.4 B	—	25	25
Iron	8.1 U	—	8.1 U	5.3 U	6.9 B	5.3 U	5.3 U	100 U	—	7,000	100
Lead	1.8 B	—	1.2 U	1.6 UJ	1.6 U	1.6 U	3.6 J	3.0 U	—	4.2	3
Magnesium	21,100	—	18,600 J	25,700	23,500	17,800 J	28,400	25,100	—		5,000
Manganese	0.40 B	—	0.20 U	0.70 B	2.50 B	0.5 U	0.5 U	2.9 B	—		15
Mercury	0.10 U	—	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.20 U	—	0.2	0.2
Nickel	0.50 B	—	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	40 U	—	96	40
Potassium	2,640 B	—	2,800 J	2,400 B	3,080 B	3,290 J	2,450 B	2,580 J	—		5,000
Selenium	3.1 U	—	3.1 UJ	3.3 UJ	3.3 UJ	3.3 R	3.3 U	5.0 UJ	—	8.5	5
Silver	0.40 U	—	0.40 U	0.60 B	0.50 U	0.50 U	0.5 U	10 U	—	10	10
Sodium	34,500	—	41,100 J	97,300	64,000	43,900 J	50,700	52,800	—		5,000
Thallium	3.5 B	—	1.8 U	1.5 UJ	5.5 J	1.5 U	1.5 UJ	10 U	—	40	10
Vanadium	6.5 B	—	0.90 B	1.00 U	5.00 B	1.0 U	6.7 B	7.4 B	—		50
Zinc	10.6 B	—	0.50 UJ	4.30 U	4.30 U	4.3 UJ	4.3 U	20 U	—	86	20
<b>Inorganics - Metals and Cyanide (Total)</b>											
Aluminum	299	—	24.8 B	173 B	38.1 B	26.9 U	76.3 B	230 J	—		
Antimony	1.6 U	—	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	—		
Arsenic	2.5 U	—	8.9 B	3.6 U	3.6 U	8.0 B	3.6 U	3.3 B	—		
Barium	47.3 B	—	32.1 J	47.2 B	46.5 B	37.9 B	40.5 B	43 B	—		
Beryllium	0.10 U	—	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 U	—		
Cadmium	0.10 U	—	0.10 U	0.20 U	0.20 U	0.20 U	0.2 U	5.0 U	—		
Calcium	78,000	—	73,200 J	98,800	77,800	66,100 J	95,200	92,000	—		
Chromium	1.9 B	—	0.20 U	2.1 B	1.0 B	0.6 B	1.6 B	0.52 B	—		
Cobalt	0.30 U	—	0.30 U	0.50 U	0.50 B	0.50 U	0.5 U	50 U	—		
Copper	3.3 B	—	0.60 U	6.7 B	6.5 B	3.1 B	5.7 B	6.2 B	—		
Cyanide	0.60 U	—	0.60 U	0.70 B	0.20 U	1.60 U	1.6 U	4.9 B	—	10	10
Iron	525	—	19.5 B	253	27.0 B	27.6 B	127	400	—		
Lead	2.0 B	—	3.0 UJ	1.6 UJ	1.6 U	1.6 U	2.3 J	3.0 U	—		
Magnesium	20,600	—	19,000 J	26,100	23,000	17,700 J	27,700	24,900	—		
Manganese	24.1	—	0.20 U	15.5	3.4 B	0.5 U	5.2 B	18	—		
Mercury	0.10 U	—	0.10 U	0.10 U	0.10 U	0.10 U	0.1 B	0.2 U	—		
Nickel	0.60 B	—	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	40 U	—		
Potassium	2,640 B	—	2,810 J	2,470 B	3,210 B	3,280 J	2,470 B	2,800 J	—		
Selenium	3.1 U	—	3.1 UJ	4.6 J	3.3 UJ	3.3 UJ	3.3 U	5.0 UJ	—		
Silver	0.40 U	—	0.40 U	0.50 U	0.50 U	0.50 U	0.5 U	10 U	—		
Sodium	33,600	—	41,000 J	97,400	65,600	44,300 J	49,300	52,300	—		
Thallium	2.8 B	—	9.8 B	1.5 UJ	5.5 J	1.5 U	1.5 UJ	10 U	—		
Vanadium	5.2 B	—	0.80 U	1.0 U	5.2 B	1.0 U	4.7 B	8.6 B	—		
Zinc	12.0 B	—	0.50 UJ	4.3 U	4.3 U	4.3 UJ	4.3 U	20 U	—		
<b>Volatile Organic Compounds (VOCs)</b>	BRL	—	BRL	BRL	BRL	BRL	BRL	BRL	—		
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	BRL	—	BRL	BRL	BRL	BRL	BRL	BRL	—		
<b>Pesticides / PCBs</b>	BRL	—	BRL	BRL	BRL	BRL	BRL	BRL	—		

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
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- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-51**

Compound	Quarterly Sampling Result (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10			
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>												
Aluminum	15.4 U	15.3 U	15.3 U	15.3 U	26.9 U	27.6 B	26.9 U	103 B				
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U		60	60	
Arsenic	2.4 U	2.5 U	2.5 UJ	2.9 B	3.6 U	3.6 U	4.1 UJ	3.6 UJ		20	10	
Barium	41.0 B	47.9 B	43.2 B	32.8 B	47.8 B	47.1 B	37.2 B	40.0 B		1,000	200	
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.30 U	2.30 U	2.3 U	2.3 U		5	5	
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.2 U	0.2 U		5	5	
Calcium	84,500	80,400	81,100	73,700 J	95,000	76,100	64,900 J	93,800				5,000
Chromium	0.60 B	1.4 B	0.20 U	0.20 U	2.30 B	0.90 B	1.2 B	1.9 B		11	10	
Cobalt	0.20 U	0.30 U	0.30 U	0.30 U	0.50 U	0.80 B	0.5 U	0.5 U			50	
Copper	3.1 B	3.4 B	1.7 B	0.70 B	6.50 B	5.80 B	2.8 B	5.8 B		25	25	
Iron	8.5 U	8.1 U	8.1 U	8.1 U	5.3 U	13.6 B	5.3 U	17.4 B		7,000	100	
Lead	0.80 U	1.2 B	1.5 B	1.2 U	1.6 UJ	1.6 U	1.6 U	2.9 J		4.2	3	
Magnesium	22,100	21,900	25,600 J	18,900 J	25,300	22,500	17,400 J	28,000				5,000
Manganese	0.3 U	1.7 B	31.4	4.8 B	2.3 B	3.5 B	4.6 B	5.6 B				15
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U		0.2	0.2	
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U		96	40	
Potassium	1,740 B	2,760 B	3,540 B	2,840 J	2,380 B	3,040 B	3,120 J	2,380 B				5,000
Selenium	3.9 U	3.1 UJ	3.1 UJ	3.1 UJ	3.3 UJ	3.3 UJ	3.3 R	3.3 U		8.5	5	
Silver	0.30 U	0.40 U	1.5 B	0.40 U	0.90 B	0.50 U	0.5	0.5 U		10	10	
Sodium	61,400	37,000	42,800 J	42,800 J	96,700	65,200	43,400 J	49,600				5,000
Thallium	6.8 B	1.8 U	3.0 BJ	1.8 U	1.5 UJ	3.5 J	1.5 U	1.5 UJ		40	10	
Vanadium	1.5 B	4.8 B	4.8 B	1.6 B	1.0 U	5.0 B	1.0 U	6.8 B			50	
Zinc	8.1 B	12.1 B	0.50 U	0.50 UJ	4.30 U	4.30 U	4.3 UJ	4.3 U		86	20	
<b>Inorganics - Metals and Cyanide (Total)</b>												
Aluminum	117.0 B	44.8 B	15.3 U	24.3 B	58.5 B	46.2 B	26.9 U	52.0 B				
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U				
Arsenic	2.4 U	2.5 U	3.7 B	5.1 B	3.6 U	3.6 U	5.9 B	3.6 U				
Barium	40.2 B	42.1 B	50.4 J	33.3 J	46.2 B	49.9 B	36.7 B	42.6 B				
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.30 U	2.30 U	2.30 U	2.3 U				
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.20 U	0.2 U				
Calcium	81,900	72,700	87,200 J	74,400 J	97,000	83,400	65,100 J	98,200				
Chromium	0.6 B	1.3 B	0.20 U	0.20 U	2.10 B	2.80 B	0.40 U	1.9 B				
Cobalt	0.20 U	3.0 U	0.30 U	0.30 U	0.50 U	0.80 B	0.50 U	0.5 U				
Copper	3.2 B	2.4 B	3.0 B	0.60 U	5.80 B	6.10 B	2.90 B	5.4 B				
Cyanide	0.60 U	0.60 U	1.0 B	0.60 U	0.20 U	0.20 U	1.6 U	1.6 U		10	10	
Iron	144	79.7 B	84.3 J	50.6 B	45.1 B	106.0	45.6 B	37.2 B				
Lead	0.80 U	1.7 B	1.7 B	3.0 UJ	1.6 UJ	1.6 U	1.6 U	2.9 J				
Magnesium	21,100	19,700	27,100 J	19,000 J	25,700	24,500	17,400 J	28,800				
Manganese	1.9 B	4.6 B	82.4 J	29.3	3.9 B	11.1 B	7.5 B	3.4 B				
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U				
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.50 B	0.40 U	0.4 U				
Potassium	1,710 B	2,470 B	3,680 J	2,860 J	2,430 B	3,250 B	3,140 J	2,500 B				
Selenium	3.90 U	3.1 UJ	3.1 U	3.1 UJ	3.3 UJ	3.3 UJ	3.3 UJ	3.3 U				
Silver	0.30 U	0.40 U	0.40 U	0.40 U	0.50 U	0.50 U	0.50 U	0.5 U				
Sodium	59,000 J	33,300	45,000 J	42,200 J	97,400	69,200	43,400 J	51,700				
Thallium	4.4 B	1.8 U	4.1 B	1.9 B	1.5 UJ	2.6 J	1.5 U	1.5 UJ				
Vanadium	1.0 U	4.1 B	11.8 B	1.6 B	1.0 U	4.6 B	1.0 U	5.1 B				
Zinc	9.1 B	9.8 B	0.50 U	0.50 UJ	4.30 U	4.30 U	4.30 UJ	4.30 U				
<b>Volatile Organic Compounds (VOCs)</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL				
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL				
<b>Pesticides / PCBs</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL				

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ.
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-52**

Compound	Quarterly Sampling Result (All Results Expressed in Units of µg/l)										CRQL
	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10	Trigger Level	
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>										No Flow	
Aluminum	26.7 B	15.3 U	15.3 U	26.9 U	26.9 U	26.9 U	65.5 B	31 J	—		200
Antimony	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	—	60	60
Arsenic	2.5 U	2.5 UJ	3.4 B	3.6 U	3.6 U	9.2 UJ	3.6 UJ	4.5 B	—	20	10
Barium	48.5 B	113 B	32.0 B	47.0 B	48.6 B	37.3 B	41.8 B	47 B	—	1,000	200
Beryllium	0.10 U	0.10 U	0.10 U	2.30 U	2.30 U	2.3 U	2.3 U	50 U	—	5	5
Cadmium	0.10 U	0.10 U	0.10 U	0.20 U	0.20 B	0.2 U	0.2 U	50 U	—	5	5
Calcium	80,700	125,000	70,400 J	97,900	78,800	64,900 J	95,200	101,000	—		5,000
Chromium	1.6 B	0.20 U	0.20 U	2.10 B	0.70 B	1.0 B	2.2 B	10 U	—	11	10
Cobalt	0.30 U	0.30 U	0.30 U	0.50 U	0.60 B	0.5 U	0.5 U	50 U	—		50
Copper	3.6 B	1.6 B	0.60 U	5.60 B	5.30 B	2.8 B	6.0 B	8.0 B	—	25	25
Iron	8.1 U	17.5 B	8.1 U	5.3 U	11.3 B	14.7 B	22.0 B	100 U	—	7,000	100
Lead	1.7 B	3.6	1.2 U	1.6 UJ	1.6 U	4.3 J	1.6 J	—	—	4.2	3
Magnesium	22,300	29,100 J	18,000 J	26,200	23,200	16,900 J	27,700	27,800	—		5,000
Manganese	4.6 B	295	4.4 B	2.6 B	11.4 B	1.3 B	5.0 B	9.3 B	—		15
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.2 U	—	0.2	0.2
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.90 B	0.4 U	0.4 U	40 U	—	96	40
Potassium	2,710 B	3,490 B	2,750 J	2,440 B	3,060 B	3,130 J	2,400 B	1,880 J	—		5,000
Selenium	3.1 UJ	3.1 UJ	3.1 UJ	3.3 UJ	3.3 UJ	3.3 R	3.3 U	5.0 U	—	8.5	5
Silver	0.40 U	0.40 U	0.40 U	0.50 B	0.50 U	0.5 U	0.5 U	10 U	—	10	10
Sodium	37,900	37,700 J	41,200 J	101,000	67,900	43,900 J	50,700	61,500	—		5,000
Thallium	1.8 U	6.8 J	1.8 U	1.5 UJ	3.3 J	1.5 U	1.5 UJ	10 U	—	40	10
Vanadium	4.9 B	10.2 B	2.2 B	1.0 U	4.3 B	1.0 U	7.4 B	12 B	—		50
Zinc	24.7	0.50 U	0.50 UJ	4.30 U	4.30 U	4.3 UJ	4.3 U	20 U	—	86	20
<b>Inorganics - Metals and Cyanide (Total)</b>											
Aluminum	117 B	15.3 U	18.6 B	59.1 B	47.5 B	335.0	43.5 B	110 J	—		
Antimony	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	—		
Arsenic	2.5 U	3.5 B	2.8 B	3.6 U	3.6 U	7.3 B	3.6 U	10 U	—		
Barium	42.4 B	60.5 J	32.3 J	45.6 B	48.8 B	39.0 B	40.0 B	43 B	—		
Beryllium	0.10 U	0.10 U	0.10 U	2.30 U	2.30 U	2.3 U	2.3 U	5.0 U	—		
Cadmium	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.2 U	0.2 U	5.0 U	—		
Calcium	77,900	97,500 J	71,400 J	95,400	80,000	63,800 J	94,400	93,800	—		
Chromium	1.9 B	0.20 B	0.20 U	2.10 B	1.00 B	0.6 B	1.7 B	10 U	—		
Cobalt	0.30 U	0.30 U	0.30 U	0.50 U	0.90 B	0.5 U	0.5 U	50 U	—		
Copper	3.3 B	2.8 B	0.60 U	5.80 B	5.70 B	3.2 B	5.2 B	7.8 B	—		
Cyanide	0.60 U	1.0 B	0.60 U	1.30 B	0.20 U	1.6 U	1.6 U	5.0 U	—	10	10
Iron	139	298 J	60.7 B	43.8 B	86.8 B	643	33.2 B	93.0 B	—		
Lead	1.8 B	2.7 B	3.0 UJ	1.6 UJ	1.6 U	1.6 U	1.6 U	3.0 U	—		
Magnesium	20,800	28,200 J	18,100 J	25,700	23,200	16,800 J	26,900	25,900	—		
Manganese	9.8 B	173.0 J	14.1 B	4.2 B	18.8	33.3	5.9 B	7.9 B	—		
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.2 B	0.2 U	—		
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	40 U	—		
Potassium	2,610 B	3,930 J	2,750 J	2,400 B	3,110 B	3,050 J	2,430 B	1,780 J	—		
Selenium	3.1 UJ	3.1 U	3.1 UJ	3.3 UJ	3.3 UJ	3.3 UJ	3.3 U	5.0 U	—		
Silver	0.40 U	0.40 U	0.40 U	1.00 B	0.50 U	0.5 U	0.5 U	10 U	—		
Sodium	36,900	47,500 J	41,100 J	98,800	69,100	42,700 J	49,600	56,600	—		
Thallium	1.9 B	4.0 B	2.9 B	1.5 UJ	7.3 J	1.5 U	1.5 UJ	10 U	—		
Vanadium	6.2 B	12.0 B	1.6 B	1.0 U	4.6 B	1.0 U	4.7 B	9.2 B	—		
Zinc	17.3 B	0.50 U	0.50 UJ	4.30 U	4.30 U	4.3 UJ	4.3 U	20 U	—		
<b>Volatile Organic Compounds (VOCs)</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	—		
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	—		
<b>Pesticides / PCBs</b>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	—		

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ.
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-1**

Compound	Quarterly Sampling Results (All Results Expressed in Units of mg/l)										TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Apr-09	Sep-09	Dec-09	Mar-10			
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>												
Aluminum	15.4 U	15.3 U	—	—	—	34.6 B	—	—	—	—	200	
Antimony	2.4 U	1.6 U	—	—	—	4.8 U	—	—	—	—	60	60
Arsenic	2.4 U	2.5 U	—	—	—	3.6 U	—	—	—	—	20	10
Barium	18.1 B	41.8 J	—	—	—	47.4 J	—	—	—	—	1,000	200
Beryllium	0.10 U	0.10 U	—	—	—	2.3 U	—	—	—	—	5	5
Cadmium	0.10 U	0.10 U	—	—	—	0.2 U	—	—	—	—	5	5
Calcium	51,200	59,100 J	—	—	—	95200	—	—	—	—	5,000	
Chromium	0.30 U	1.0 B	—	—	—	1.6 B	—	—	—	—	11	10
Cobalt	0.20 U	0.30 U	—	—	—	0.5 U	—	—	—	—	50	
Copper	2.1 B	4.7 B	—	—	—	5.0 B	—	—	—	—	25	25
Iron	8.5 U	10.6 B	—	—	—	5.3 U	—	—	—	—	7,000	100
Lead	0.80 U	1.9 B	—	—	—	1.6 UJ	—	—	—	—	4.2	3
Magnesium	8,700	8,500 J	—	—	—	15700	—	—	—	—	5,000	
Manganese	0.30 U	1.3 B	—	—	—	0.5 U	—	—	—	—	15	
Mercury	0.10 U	0.10 UJ	—	—	—	0.1 U	—	—	—	—	0.2	0.2
Nickel	0.40 U	0.60 B	—	—	—	0.4 U	—	—	—	—	96	40
Potassium	2,570 B	5,580	—	—	—	4990 B	—	—	—	—	5,000	
Selenium	3.9 U	3.1 U	—	—	—	3.3 U	—	—	—	—	8.5	5
Silver	0.30 U	0.40 U	—	—	—	0.5 U	—	—	—	—	10	10
Sodium	1,670 B	2,400 J	—	—	—	4270 B	—	—	—	—	5,000	
Thallium	3.0 B	2.1 B	—	—	—	1.5 UJ	—	—	—	—	40	10
Vanadium	1.0 U	1.9 B	—	—	—	1.0 U	—	—	—	—	50	
Zinc	42.8	227	—	—	—	135	—	—	—	—	86	20
<b>Inorganics - Metals and Cyanide (Total)</b>												
Aluminum	209	921	—	—	—	180 B	—	—	—	—	—	
Antimony	2.4 U	1.6 U	—	—	—	4.8 U	—	—	—	—	—	
Arsenic	2.4 U	2.5 UJ	—	—	—	3.6 U	—	—	—	—	—	
Barium	18.8 B	47.9 J	—	—	—	49.2 J	—	—	—	—	—	
Beryllium	0.10 U	0.10 U	—	—	—	2.3 U	—	—	—	—	—	
Cadmium	0.10 U	0.10 U	—	—	—	0.2 U	—	—	—	—	—	
Calcium	52,000	5,800 J	—	—	—	94200	—	—	—	—	—	
Chromium	0.60 B	2.1 B	—	—	—	1.4 B	—	—	—	—	—	
Cobalt	0.20 U	0.80 B	—	—	—	0.5 U	—	—	—	—	—	
Copper	2.2 B	6.8 B	—	—	—	5.4 B	—	—	—	—	—	
Cyanide	0.60 U	0.60 B	—	—	—	0.2 U	—	—	—	—	10	10
Iron	361.0	1,760	—	—	—	322	—	—	—	—	—	
Lead	0.80 U	3.1	—	—	—	1.6 U	—	—	—	—	—	
Magnesium	8790.0	8,730	—	—	—	152000	—	—	—	—	—	
Manganese	5.4 B	27.3	—	—	—	6.0 B	—	—	—	—	—	
Mercury	0.10 U	0.10 UJ	—	—	—	0.1 U	—	—	—	—	—	
Nickel	0.40 U	2.2 B	—	—	—	0.4 U	—	—	—	—	—	
Potassium	2,580 B	6,000	—	—	—	5130	—	—	—	—	—	
Selenium	3.9 U	3.1 UJ	—	—	—	3.3 U	—	—	—	—	—	
Silver	0.30 U	0.40 U	—	—	—	0.5 U	—	—	—	—	—	
Sodium	1690.0 B	2,370 J	—	—	—	4290 B	—	—	—	—	—	
Thallium	4.6 B	1.8 U	—	—	—	1.5 UJ	—	—	—	—	—	
Vanadium	1.0 U	2.6 B	—	—	—	1.0 U	—	—	—	—	—	
Zinc	47.6	233	—	—	—	142	—	—	—	—	—	
<b>Volatile Organic Compounds (VOCs)</b>												
<b>Semi-Volatile Organic Compounds (SVOCs)</b>												
<b>Pesticides / PCBs</b>												

Notes:

- 1) All results expressed in micrograms per liter ( $\mu\text{g/L}$ ).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UI = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-2**

Compound	Quarterly Sampling Results (All Results Expressed in Units of mg/l)										TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Apr-09	Sep-09	Dec-09	Mar-10			
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>			Location Dry	Sampling no longer required see note 16								
Aluminum	15.4 U	15.3 U	—	—	—	—	—	—		200		
Antimony	2.4 U	1.6 U	—	—	—	—	—	—		60	60	
Arsenic	2.4 U	2.5 U	—	—	—	—	—	—		20	10	
Barium	20.8 B	45.3 B	—	—	—	—	—	—		1,000	200	
Beryllium	0.10 U	0.10 U	—	—	—	—	—	—		5	5	
Cadmium	0.10 U	0.10 U	—	—	—	—	—	—		5	5	
Calcium	109,000	117,000	—	—	—	—	—	—		5,000		
Chromium	0.50 B	2.0 B	—	—	—	—	—	—		11	10	
Cobalt	0.20 U	0.30 U	—	—	—	—	—	—		50		
Copper	3.0 B	3.0 B	—	—	—	—	—	—		25	25	
Iron	8.5 U	8.1 U	—	—	—	—	—	—		7,000	100	
Lead	0.8 U	1.2 U	—	—	—	—	—	—		4.2	3	
Magnesium	31,200	33,600	—	—	—	—	—	—		5,000		
Manganese	0.30 U	0.20 U	—	—	—	—	—	—		15		
Mercury	0.10 U	0.10 U	—	—	—	—	—	—		0.2	0.2	
Nickel	0.40 U	0.40 U	—	—	—	—	—	—		96	40	
Potassium	1,870 B	2,730 B	—	—	—	—	—	—		5,000		
Selenium	3.9 U	3.1 U	—	—	—	—	—	—		8.5	5	
Silver	0.30 U	0.40 U	—	—	—	—	—	—		10	10	
Sodium	2,350 B	2,470 B	—	—	—	—	—	—		5,000		
Thallium	5.0 B	1.8 B	—	—	—	—	—	—		40	10	
Vanadium	1.0 U	9.8 B	—	—	—	—	—	—		50		
Zinc	9.9 B	10.0 B	—	—	—	—	—	—		86	20	
<b>Inorganics - Metals and Cyanide (Total)</b>												
Aluminum	15.4 U	15.3 U	—	—	—	—	—	—				
Antimony	2.4 U	1.6 U	—	—	—	—	—	—				
Arsenic	2.4 U	2.5 U	—	—	—	—	—	—				
Barium	19.5 B	44.9 B	—	—	—	—	—	—				
Beryllium	0.10 U	0.10 U	—	—	—	—	—	—				
Cadmium	0.10 U	0.10 U	—	—	—	—	—	—				
Calcium	108,000	118,000	—	—	—	—	—	—				
Chromium	0.5 B	1.8 B	—	—	—	—	—	—				
Cobalt	0.20 U	0.30 U	—	—	—	—	—	—				
Copper	2.8 B	2.7 B	—	—	—	—	—	—				
Cyanide	0.60 U	0.70 B	—	—	—	—	—	—				
Iron	8.50 U	8.1 U	—	—	—	—	—	—				
Lead	0.80 U	1.2 U	—	—	—	—	—	—				
Magnesium	30,100	32,600	—	—	—	—	—	—				
Manganese	0.30 U	0.20 U	—	—	—	—	—	—				
Mercury	0.10 U	0.10 U	—	—	—	—	—	—				
Nickel	0.40 U	0.40 U	—	—	—	—	—	—				
Potassium	1,810 B	2,650 B	—	—	—	—	—	—				
Selenium	3.90 U	3.1 U	—	—	—	—	—	—				
Silver	0.30 U	0.40 U	—	—	—	—	—	—				
Sodium	1,930 B	2,300 B	—	—	—	—	—	—				
Thallium	4.6 B	1.8 U	—	—	—	—	—	—				
Vanadium	1.0 U	8.8 B	—	—	—	—	—	—				
Zinc	12.4 B	9.0 B	—	—	—	—	—	—				
<b>Volatile Organic Compounds (VOCs)</b>	BRL	BRL	—	—	—	—	—	—	—			
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	BRL	BRL	—	—	—	—	—	—	—			
<b>Pesticides / PCBs</b>	BRL	BRL	—	—	—	—	—	—	—			

Notes:

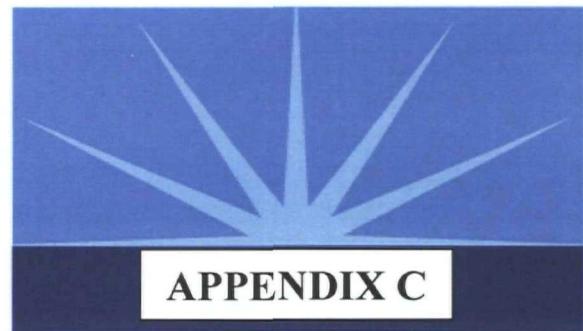
- 1) All results expressed in micrograms per liter ( $\mu\text{g/L}$ ).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill**  
**West Chester, Ohio**  
**Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-3**

Compound	Quarterly Sampling Results (All Results Expressed in Units of mg/l)										TRIGGER LEVEL	CRQL
	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Apr-09	Sep-09	Dec-09	Mar-10		
<b>Inorganics - Metals (Dissolved)<sup>14</sup></b>				Location Dry	Location Dry	Location Dry		Location Dry	Location Dry	Location Dry		
Aluminum	15.4 U	15.4 U	28.6 B	—	—	—	27 U	—	—	—		200
Antimony	2.4 U	2.4 U	1.6 U	—	—	—	4.8 U	—	—	—	60	60
Arsenic	2.4 U	2.4 U	2.5 U	—	—	—	3.6 U	—	—	—	20	10
Barium	31.1 B	5.6 B	9.5 J	—	—	—	9.5 J	—	—	—	1,000	200
Beryllium	0.10 U	0.10 U	0.10 U	—	—	—	2.3 U	—	—	—	5	5
Cadmium	0.10 U	0.10 U	0.10 U	—	—	—	0.2 U	—	—	—	5	5
Calcium	93,300	23,200	22,200 J	—	—	—	35800	—	—	—		5,000
Chromium	1.5 B	0.30 U	0.4 B	—	—	—	0.4 U	—	—	—	11	10
Cobalt	0.20 U	0.20 U	0.30 U	—	—	—	0.5 U	—	—	—		50
Copper	2.9 J	1.2 B	1.3 B	—	—	—	2.5 B	—	—	—	25	25
Iron	8.5 U	8.5 U	60.2 B	—	—	—	15.9 B	—	—	—	7,000	100
Lead	0.80 U	0.80 U	1.2 U	—	—	—	1.6 UJ	—	—	—	4.2	3
Magnesium	10,900	2,370 B	2,120 J	—	—	—	3970 B	—	—	—		5,000
Manganese	0.30 U	0.30 U	4.0 B	—	—	—	0.5 U	—	—	—		15
Mercury	0.10 U	0.10 U	0.10 UJ	—	—	—	0.1 U	—	—	—	0.2	0.2
Nickel	0.40 U	0.40 U	0.90 B	—	—	—	0.6 B	—	—	—	96	40
Potassium	2,080 B	2,060 B	7,440	—	—	—	3080 B	—	—	—		5,000
Selenium	3.9 UJ	3.9 U	3.1 U	—	—	—	3.3 U	—	—	—	8.5	5
Silver	0.30 U	0.30 U	0.40 U	—	—	—	0.5 U	—	—	—	10	10
Sodium	298 B	572 B	440 J	—	—	—	949 B	—	—	—		5,000
Thallium	1.7 U	4.0 B	3.4 B	—	—	—	1.5 UJ	—	—	—	40	10
Vanadium	2.3 B	1.0 U	0.80 U	—	—	—	1.0 U	—	—	—		50
Zinc	4.4 B	5.5 B	14.7 B	—	—	—	4.3 U	—	—	—	86	20
<b>Inorganics - Metals and Cyanide (Total)</b>												
Aluminum	15.4 U	133 B	351	—	—	—	162 B	—	—	—		
Antimony	2.4 U	2.4 U	1.6 U	—	—	—	4.8 U	—	—	—		
Arsenic	2.4 U	2.4 U	2.5 UJ	—	—	—	3.6 U	—	—	—		
Barium	26.9 B	6.3 B	11.6 J	—	—	—	10.8 J	—	—	—		
Beryllium	0.10 U	0.10 U	0.10 U	—	—	—	2.3 U	—	—	—		
Cadmium	0.10 U	0.10 U	0.10 U	—	—	—	0.2 U	—	—	—		
Calcium	86,900	23,200	21,900 J	—	—	—	37500	—	—	—		
Chromium	0.90 B	0.40 B	0.70 B	—	—	—	0.4 B	—	—	—		
Cobalt	0.20 U	0.40 B	0.30 U	—	—	—	0.5 U	—	—	—		
Copper	2.0 J	1.1 B	2.3 B	—	—	—	6.6 B	—	—	—		
Cyanide	0.60 U	0.60 U	0.60 B	—	—	—	0.2 U	—	—	—	10	10
Iron	15.5 J	227	661	—	—	—	304	—	—	—		
Lead	0.80 U	0.90 B	2.2 B	—	—	—	1.6 UJ	—	—	—		
Magnesium	10,100	2,310 B	2,190 J	—	—	—	4210 B	—	—	—		
Manganese	0.3 U	1.8 B	29.7	—	—	—	6.7 B	—	—	—		
Mercury	0.10 U	0.10 U	0.10 U	—	—	—	0.1 U	—	—	—		
Nickel	0.40 U	0.40 U	1.4 UJ	—	—	—	0.4 U	—	—	—		
Potassium	1,970 J	2,080 B	7,630	—	—	—	3310 B	—	—	—		
Selenium	3.9 U	3.9 U	3.1 UJ	—	—	—	3.3 U	—	—	—		
Silver	0.30 U	0.30 U	0.40 U	—	—	—	0.5 U	—	—	—		
Sodium	65.0 J	557 B	352 J	—	—	—	739 B	—	—	—		
Thallium	1.7 U	1.7 U	2.6 B	—	—	—	1.5 UJ	—	—	—		
Vanadium	1.0 U	1.0 U	0.80 U	—	—	—	1.0 U	—	—	—		
Zinc	1.5 B	6.8 B	16.9 B	—	—	—	4.3 U	—	—	—		
<b>Volatile Organic Compounds (VOCs)</b>	BRL	BRL	BRL	—	—	—	BRL	—	—	—		
<b>Semi-Volatile Organic Compounds (SVOCs)</b>	BRL	BRL	BRL	—	—	—	BRL	—	—	—		
<b>Pesticides / PCBs</b>	BRL	BRL	BRL	—	—	—	BRL	—	—	—		

Notes:

- 1) All results expressed in micrograms per liter ( $\mu\text{g/L}$ ).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.



**LABORATORY DATA  
VALIDATION REPORT**

**AECOM**



## ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.  
7979 GSRI Avenue  
Baton Rouge, LA 70820

Report Date 10/11/2010

GCAL Report 210091822



*Deliver To* AECOM/Earth Tech  
One Midtown Plaza  
1360 Peachtree St Suite 500  
Atlanta, GA 30309  
770-990-1400

*Attn* Mark Kromis

*Project* Skinner Landfill 3rd Q 2010

## CASE NARRATIVE

**Client: AECOM/Earth Tech      Report: 210091822**

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

### METALS

In the SW-846 6010B Dissolved analysis for prep batch 442065, the MS recovery is not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration. Barium and Nickel is flagged as estimated on the serial dilution form due to the fact that the percent difference between original sample result and the serial dilution result for the batch QC sample is greater than 10. A chemical or physical interference is suspected.

In the SW-846 6010B analysis for prep batch 442064, the MS/MSD recoveries are not applicable for Calcium because the sample concentration is greater than four times the spike concentration. Barium, Cobalt and Nickel is flagged as estimated on the serial dilution form due to the fact that the percent difference between original sample result and the serial dilution result for the batch QC sample is greater than 10. A chemical or physical interference is suspected.

There are several Dissolved Metals concentration greater than the total concentration for several elements in samples 21009182202 (SK-GW63-1034), 21009182203 (SK-GW61-1034), 21009182205 (SK-GW58-1034), 21009182208 (SK-GW26-1034), 21009182209 (SK-FD-1034 (GW26)) and 21009182210 (SK-GW07R-1034). This is attributed to separate aliquots of sample.

### CONVENTIONALS

The Sample/Duplicate RPD for Total Cyanide for prep batch 442302 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

# Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

## Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

## Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.



Robyn Miguez  
Technical Director  
GCAL REPORT 210091822

THIS REPORT CONTAINS \_\_\_\_\_ PAGES.

## Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009182201	SK-GW65-1034	Water	09/15/2010 09:55	09/16/2010 08:45
21009182202	SK-GW63-1034	Water	09/15/2010 10:15	09/16/2010 08:45
21009182203	SK-GW61-1034	Water	09/15/2010 10:25	09/16/2010 08:45
21009182204	SK-GW59-1034	Water	09/15/2010 10:40	09/16/2010 08:45
21009182205	SK-GW58-1034	Water	09/15/2010 12:25	09/16/2010 08:45
21009182206	SK-MS-1034 (GW58)	Water	09/15/2010 12:25	09/16/2010 08:45
21009182207	SK-MSD-1034 (GW58)	Water	09/15/2010 12:25	09/16/2010 08:45
21009182208	SK-GW26-1034	Water	09/15/2010 12:55	09/16/2010 08:45
21009182209	SK-FD-1034 (GW26)	Water	09/15/2010 12:55	09/16/2010 08:45
21009182210	SK-GW07R-1034	Water	09/15/2010 13:20	09/16/2010 08:45

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-GW65-1034  
 Lab Code: LA024 Case No.: Contract:  
 Matrix: ( soil / water ) Water SAS No.: SDG No.: 210091822  
 Level: ( low / med ) % Solids: Lab Sample ID: 21009182201  
 Date Received: 09/16/10 Time: 0845 Date Collected: 09/15/10 Time: 0955

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	6.07	mg/L		0.018	0.20	SW-846 6010B	P
Antimony	0.0062	mg/L	B	0.0035	0.060	SW-846 6010B	P
Arsenic	0.018	mg/L		0.0030	0.010	SW-846 6010B	P
Barium	0.041	mg/L	B E	0.00031	0.20	SW-846 6010B	P
Beryllium	0.00022	mg/L	B	0.000068	0.0050	SW-846 6010B	P
Cadmium	0.0013	mg/L	B	0.00016	0.0050	SW-846 6010B	P
Calcium	240	mg/L		0.028	5.00	SW-846 6010B	P
Chromium	0.0042	mg/L	B	0.00032	0.010	SW-846 6010B	P
Cobalt	0.010	mg/L	B	0.00051	0.050	SW-846 6010B	P
Copper	0.0066	mg/L	B	0.0011	0.025	SW-846 6010B	P
Iron	13.8	mg/L		0.0095	0.10	SW-846 6010B	P
Lead	0.0073	mg/L		0.0015	0.0030	SW-846 6010B	P
Magnesium	143	mg/L		0.023	5.00	SW-846 6010B	P
Manganese	0.38	mg/L		0.00057	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A	AV
Nickel	0.021	mg/L	B	0.0012	0.040	SW-846 6010B	P
Potassium	5.20	mg/L		0.068	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00058	0.010	SW-846 6010B	P
Sodium	30.3	mg/L		0.059	5.00	SW-846 6010B	P
Thallium	0.0048	mg/L	B	0.0015	0.010	SW-846 6010B	P
Vanadium	0.012	mg/L	B	0.0011	0.050	SW-846 6010B	P
Zinc	0.037	mg/L		0.0040	0.020	SW-846 6010B	P

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-GW65-1034  
 Lab Code: LA024 Case No.: Contract:  
 Matrix: ( soil / water ) Water SAS No.: SDG No.: 210091822  
 Level: ( low / med ) % Solids: Lab Sample ID: 21009182201  
 Date Received: 09/16/10 Time: 0845 Date Collected: 09/15/10 Time: 0955

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	0.20	mg/L	U	0.018	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.0048	mg/L	B	0.0035	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.0091	mg/L	B	0.0030	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.023	mg/L	B	0.00031	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0019	mg/L	B	0.000068	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.0025	mg/L	B	0.00016	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	206	mg/L		0.028	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00032	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.0059	mg/L	B	0.00051	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.025	mg/L	U	0.0011	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.032	mg/L	B	0.0095	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0028	mg/L	B	0.0015	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	137	mg/L		0.023	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.0030	mg/L	B	0.00057	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.0083	mg/L	B	0.0012	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	3.92	mg/L	B	0.068	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00058	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	29.3	mg/L		0.059	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.0043	mg/L	B	0.0015	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.0055	mg/L	B	0.0011	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0040	0.020	SW-846 6010B Dissolved	P

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## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-GW63-1034  
 Lab Code: LA024 Case No.: Contract:  
 Matrix: ( soil / water ) Water SAS No.: SDG No.: 210091822  
 Level: ( low / med ) % Solids: Lab Sample ID: 21009182202  
 Date Received: 09/16/10 Time: 0845 Date Collected: 09/15/10 Time: 1015

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.15	mg/L	B	0.018	0.20	SW-846 6010B	P
Antimony	0.0071	mg/L	B	0.0035	0.060	SW-846 6010B	P
Arsenic	0.0036	mg/L	B	0.0030	0.010	SW-846 6010B	P
Barium	0.032	mg/L	B E	0.00031	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B	P
Cadmium	0.00052	mg/L	B	0.00016	0.0050	SW-846 6010B	P
Calcium	230	mg/L		0.028	5.00	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00032	0.010	SW-846 6010B	P
Cobalt	0.0044	mg/L	B	0.00051	0.050	SW-846 6010B	P
Copper	0.025	mg/L	U	0.0011	0.025	SW-846 6010B	P
Iron	0.48	mg/L		0.0095	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B	P
Magnesium	51.9	mg/L		0.023	5.00	SW-846 6010B	P
Manganese	1.40	mg/L		0.00057	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A	AV
Nickel	0.0066	mg/L	B	0.0012	0.040	SW-846 6010B	P
Potassium	6.07	mg/L		0.068	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00058	0.010	SW-846 6010B	P
Sodium	42.3	mg/L		0.059	5.00	SW-846 6010B	P
Thallium	0.0053	mg/L	B	0.0015	0.010	SW-846 6010B	P
Vanadium	0.0054	mg/L	B	0.0011	0.050	SW-846 6010B	P
Zinc	0.020	mg/L	U	0.0040	0.020	SW-846 6010B	P

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-GW63-1034  
 Lab Code: LA024 Case No.: Contract:  
 Matrix: ( soil / water ) Water SAS No.: SDG No.: 210091822  
 Level: ( low / med ) % Solids: Lab Sample ID: 21009182202  
 Date Received: 09/16/10 Time: 0845 Date Collected: 09/15/10 Time: 1015

**Analyte** **Concentration** **Units** **C** **MDL** **PQL** **Method** **Type**

Aluminum (Dissolved)	0.20	mg/L	U	0.018	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.0087	mg/L	B	0.0035	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.0076	mg/L	B	0.0030	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.031	mg/L	B	0.00031	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.00059	mg/L	B	0.00016	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	250	mg/L		0.028	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00032	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.0050	mg/L	B	0.00051	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.025	mg/L	U	0.0011	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.51	mg/L		0.0095	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	59.6	mg/L		0.023	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	1.78	mg/L		0.00057	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.0062	mg/L	B	0.0012	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	5.08	mg/L		0.068	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00058	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	47.3	mg/L		0.059	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.010	mg/L	U	0.0015	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.0051	mg/L	B	0.0011	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0040	0.020	SW-846 6010B Dissolved	P

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL                              Sample ID: SK-GW61-1034  
 Lab Code: LA024                              Case No.:  
 Matrix: ( soil / water ) Water              Contract:  
 Level: ( low / med )                        SAS No.: SDG No.: 210091822  
 Date Received: 09/16/10                      % Solids: Lab Sample ID: 21009182203  
 Time: 0845                                      Date Collected: 09/15/10                      Time: 1025

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.20	mg/L	U	0.018	0.20	SW-846 6010B	P
Antimony	0.0098	mg/L	B	0.0035	0.060	SW-846 6010B	P
Arsenic	0.012	mg/L		0.0030	0.010	SW-846 6010B	P
Barium	0.026	mg/L	B	0.00031	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B	P
Cadmium	0.0010	mg/L	B	0.00016	0.0050	SW-846 6010B	P
Calcium	349	mg/L		0.028	5.00	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00032	0.010	SW-846 6010B	P
Cobalt	0.0031	mg/L	B	0.00051	0.050	SW-846 6010B	P
Copper	0.025	mg/L	U	0.0011	0.025	SW-846 6010B	P
Iron	0.26	mg/L		0.0095	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B	P
Magnesium	78.9	mg/L		0.023	5.00	SW-846 6010B	P
Manganese	0.12	mg/L		0.00057	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A	AV
Nickel	0.010	mg/L	B	0.0012	0.040	SW-846 6010B	P
Potassium	12.3	mg/L		0.068	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00058	0.010	SW-846 6010B	P
Sodium	81.2	mg/L		0.059	5.00	SW-846 6010B	P
Thallium	0.0072	mg/L	B	0.0015	0.010	SW-846 6010B	P
Vanadium	0.0051	mg/L	B	0.0011	0.050	SW-846 6010B	P
Zinc	0.0049	mg/L	B	0.0040	0.020	SW-846 6010B	P

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Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.20	mg/L	U	0.018	0.20	SW-846 6010B	P
Antimony	0.0098	mg/L	B	0.0035	0.060	SW-846 6010B	P
Arsenic	0.012	mg/L		0.0030	0.010	SW-846 6010B	P
Barium	0.026	mg/L	B	0.00031	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B	P
Cadmium	0.0010	mg/L	B	0.00016	0.0050	SW-846 6010B	P
Calcium	349	mg/L		0.028	5.00	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00032	0.010	SW-846 6010B	P
Cobalt	0.0031	mg/L	B	0.00051	0.050	SW-846 6010B	P
Copper	0.025	mg/L	U	0.0011	0.025	SW-846 6010B	P
Iron	0.26	mg/L		0.0095	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B	P
Magnesium	78.9	mg/L		0.023	5.00	SW-846 6010B	P
Manganese	0.12	mg/L		0.00057	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A	AV
Nickel	0.010	mg/L	B	0.0012	0.040	SW-846 6010B	P
Potassium	12.3	mg/L		0.068	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00058	0.010	SW-846 6010B	P
Sodium	81.2	mg/L		0.059	5.00	SW-846 6010B	P
Thallium	0.0072	mg/L	B	0.0015	0.010	SW-846 6010B	P
Vanadium	0.0051	mg/L	B	0.0011	0.050	SW-846 6010B	P
Zinc	0.0049	mg/L	B	0.0040	0.020	SW-846 6010B	P

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL                              Sample ID: SK-GW61-1034  
 Lab Code: LA024                              Case No.: \_\_\_\_\_  
 Matrix: ( soil / water ) Water              Contract: \_\_\_\_\_  
 Level: ( low / med )                        SAS No.: \_\_\_\_\_ SDG No.: 210091822  
 Date Received: 09/16/10                    % Solids: \_\_\_\_\_ Lab Sample ID: 21009182203  
 Time: 0845                                    Date Collected: 09/15/10                    Time: 1025

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	0.20	mg/L	U	0.018	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.0093	mg/L	B	0.0035	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.012	mg/L		0.0030	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.025	mg/L	B	0.00031	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.0011	mg/L	B	0.00016	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	374	mg/L		0.028	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00032	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.0035	mg/L	B	0.00051	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.025	mg/L	U	0.0011	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	2.81	mg/L		0.0095	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0015	mg/L	B	0.0015	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	91.2	mg/L		0.023	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.51	mg/L		0.00057	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.010	mg/L	B	0.0012	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	11.4	mg/L		0.068	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00058	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	112	mg/L		0.059	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.0047	mg/L	B	0.0015	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.0055	mg/L	B	0.0011	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0040	0.020	SW-846 6010B Dissolved	P

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## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL                              Sample ID: SK-GW59-1034  
 Lab Code: LA024                              Case No.: Contract:  
 Matrix: ( soil / water ) Water              SAS No.: SDG No.: 210091822  
 Level: ( low / med )                        % Solids: Lab Sample ID: 21009182204  
 Date Received: 09/16/10                      Time: 0845                              Date Collected: 09/15/10                      Time: 1040

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.20	mg/L	U	0.018	0.20	SW-846 6010B	P
Antimony	0.0037	mg/L	B	0.0035	0.060	SW-846 6010B	P
Arsenic	0.0085	mg/L	B	0.0030	0.010	SW-846 6010B	P
Barium	0.038	mg/L	B	0.00031	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B	P
Cadmium	0.00046	mg/L	B	0.00016	0.0050	SW-846 6010B	P
Calcium	180	mg/L		0.028	5.00	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00032	0.010	SW-846 6010B	P
Cobalt	0.0015	mg/L	B	0.00051	0.050	SW-846 6010B	P
Copper	0.025	mg/L	U	0.0011	0.025	SW-846 6010B	P
Iron	0.23	mg/L		0.0095	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B	P
Magnesium	34.8	mg/L		0.023	5.00	SW-846 6010B	P
Manganese	0.016	mg/L		0.00057	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A	AV
Nickel	0.0037	mg/L	B	0.0012	0.040	SW-846 6010B	P
Potassium	14.3	mg/L		0.068	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00058	0.010	SW-846 6010B	P
Sodium	81.8	mg/L		0.059	5.00	SW-846 6010B	P
Thallium	0.0057	mg/L	B	0.0015	0.010	SW-846 6010B	P
Vanadium	0.0064	mg/L	B	0.0011	0.050	SW-846 6010B	P
Zinc	0.020	mg/L	U	0.0040	0.020	SW-846 6010B	P

## INORGANIC ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SK-GW59-1034
Lab Code:	LA024	Case No.:	Contract:
Matrix: ( soil / water )	Water	SAS No.:	SDG No.:
Level: ( low / med )	% Solids:	Lab Sample ID:	21009182204
Date Received:	09/16/10	Time:	0845
		Date Collected:	09/15/10
		Time:	1040

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	0.12	mg/L	B	0.018	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.060	mg/L	U	0.0035	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.0068	mg/L	B	0.0030	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.041	mg/L	B	0.00031	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.00044	mg/L	B	0.00016	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	179	mg/L		0.028	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00032	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.0019	mg/L	B	0.00051	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.025	mg/L	U	0.0011	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.41	mg/L		0.0095	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	34.5	mg/L		0.023	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.034	mg/L		0.00057	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.0044	mg/L	B	0.0012	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	13.8	mg/L		0.068	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00058	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	81.7	mg/L		0.059	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.0052	mg/L	B	0.0015	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.0060	mg/L	B	0.0011	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0040	0.020	SW-846 6010B Dissolved	P

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-GW58-1034  
 Lab Code: LA024 Case No.: Contract:  
 Matrix: ( soil / water ) Water SAS No.: SDG No.: 210091822  
 Level: ( low / med ) % Solids: Lab Sample ID: 21009182205  
 Date Received: 09/16/10 Time: 0845 Date Collected: 09/15/10 Time: 1225

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.20	mg/L	B	0.018	0.20	SW-846 6010B	P
Antimony	0.0037	mg/L	B	0.0035	0.060	SW-846 6010B	P
Arsenic	0.0043	mg/L	B	0.0030	0.010	SW-846 6010B	P
Barium	0.11	mg/L	B E	0.00031	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B	P
Cadmium	0.00019	mg/L	B	0.00016	0.0050	SW-846 6010B	P
Calcium	96.3	mg/L		0.028	5.00	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00032	0.010	SW-846 6010B	P
Cobalt	0.0012	mg/L	B	0.00051	0.050	SW-846 6010B	P
Copper	0.0013	mg/L	B	0.0011	0.025	SW-846 6010B	P
Iron	0.42	mg/L		0.0095	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B	P
Magnesium	27.1	mg/L		0.023	5.00	SW-846 6010B	P
Manganese	0.019	mg/L		0.00057	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A	AV
Nickel	0.0031	mg/L	B	0.0012	0.040	SW-846 6010B	P
Potassium	2.81	mg/L	B	0.068	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00058	0.010	SW-846 6010B	P
Sodium	23.3	mg/L		0.059	5.00	SW-846 6010B	P
Thallium	0.0020	mg/L	B	0.0015	0.010	SW-846 6010B	P
Vanadium	0.0055	mg/L	B	0.0011	0.050	SW-846 6010B	P
Zinc	0.0088	mg/L	B	0.0040	0.020	SW-846 6010B	P

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-GW58-1034  
 Lab Code: LA024 Case No.: Contract:  
 Matrix: ( soil / water ) Water SAS No.: SDG No.: 210091822  
 Level: ( low / med ) % Solids: Lab Sample ID: 21009182205  
 Date Received: 09/16/10 Time: 0845 Date Collected: 09/15/10 Time: 1225

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	0.20	mg/L	U	0.018	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.0037	mg/L	B	0.0035	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.0044	mg/L	B	0.0030	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.11	mg/L	B	0.00031	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.00028	mg/L	B	0.00016	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	96.3	mg/L		0.028	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00032	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.050	mg/L	U	0.00051	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.025	mg/L	U	0.0011	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.31	mg/L		0.0095	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	27.2	mg/L		0.023	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.0034	mg/L	B	0.00057	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.0017	mg/L	B	0.0012	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	3.07	mg/L	B	0.068	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00058	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	25.0	mg/L		0.059	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.0048	mg/L	B	0.0015	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.0043	mg/L	B	0.0011	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.0075	mg/L	B	0.0040	0.020	SW-846 6010B Dissolved	P

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## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL                              Sample ID: SK-MS-1034 (GW58)  
 Lab Code: LA024                              Case No.: Contract:  
 Matrix: ( soil / water ) Water              SAS No.: SDG No.: 210091822  
 Level: ( low / med )                        % Solids: Lab Sample ID: 21009182206  
 Date Received: 09/16/10                      Time: 0845                              Date Collected: 09/15/10                      Time: 1225

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	5.39	mg/L		0.018	0.20	SW-846 6010B	P
Antimony	0.48	mg/L		0.0035	0.060	SW-846 6010B	P
Arsenic	0.51	mg/L		0.0030	0.010	SW-846 6010B	P
Barium	0.57	mg/L	F	0.00031	0.20	SW-846 6010B	P
Beryllium	0.48	mg/L		0.000068	0.0050	SW-846 6010B	P
Cadmium	0.45	mg/L		0.00016	0.0050	SW-846 6010B	P
Calcium	101	mg/L		0.028	5.00	SW-846 6010B	P
Chromium	0.46	mg/L		0.00032	0.010	SW-846 6010B	P
Cobalt	0.42	mg/L		0.00051	0.050	SW-846 6010B	P
Copper	0.47	mg/L		0.0011	0.025	SW-846 6010B	P
Iron	5.57	mg/L		0.0095	0.10	SW-846 6010B	P
Lead	0.45	mg/L		0.0015	0.0030	SW-846 6010B	P
Magnesium	31.8	mg/L		0.023	5.00	SW-846 6010B	P
Manganese	0.49	mg/L		0.00057	0.015	SW-846 6010B	P
Mercury	0.00606	mg/L		0.000055	0.00020	SW-846 7470A	AV
Nickel	0.43	mg/L		0.0012	0.040	SW-846 6010B	P
Potassium	12.0	mg/L		0.068	5.00	SW-846 6010B	P
Selenium	0.47	mg/L		0.0037	0.0050	SW-846 6010B	P
Silver	0.49	mg/L		0.00058	0.010	SW-846 6010B	P
Sodium	41.6	mg/L		0.059	5.00	SW-846 6010B	P
Thallium	0.47	mg/L		0.0015	0.010	SW-846 6010B	P
Vanadium	0.48	mg/L		0.0011	0.050	SW-846 6010B	P
Zinc	0.45	mg/L		0.0040	0.020	SW-846 6010B	P

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## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-MS-1034 (GW58)  
Lab Code: LA024 Case No.: Contract:  
Matrix: ( soil / water ) Water SAS No.: SDG No.: 210091822  
Level: ( low / med ) % Solids: Lab Sample ID: 21009182206  
Date Received: 09/16/10 Time: 0845 Date Collected: 09/15/10 Time: 1225

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	4.77	mg/L		0.018	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.48	mg/L	.	0.0035	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.50	mg/L		0.0030	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.56	mg/L		0.00031	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.48	mg/L		0.000068	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.45	mg/L		0.00016	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	101	mg/L		0.028	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.46	mg/L		0.00032	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.42	mg/L		0.00051	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.47	mg/L		0.0011	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	4.73	mg/L		0.0095	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.45	mg/L		0.0015	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	32.3	mg/L		0.023	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.47	mg/L		0.00057	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00598	mg/L		0.000055	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.42	mg/L		0.0012	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	12.3	mg/L		0.068	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.47	mg/L		0.0037	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.48	mg/L		0.00058	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	43.1	mg/L		0.059	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.47	mg/L		0.0015	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.47	mg/L		0.0011	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.43	mg/L		0.0040	0.020	SW-846 6010B Dissolved	P

## INORGANIC ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SK-MSD-1034 (GW58)				
Lab Code:	LA024	Case No.:	Contract:				
Matrix:	( soil / water ) Water	SAS No.:	SDG No.:	210091822			
Level:	( low / med )	% Solids:	Lab Sample ID:	21009182207			
Date Received:	09/16/10	Time:	0845	Date Collected:	09/15/10	Time:	1225

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	5.61	mg/L		0.018	0.20	SW-846 6010B	P
Antimony	0.49	mg/L		0.0035	0.060	SW-846 6010B	P
Arsenic	0.52	mg/L		0.0030	0.010	SW-846 6010B	P
Barium	0.58	mg/L	E	0.00031	0.20	SW-846 6010B	P
Beryllium	0.48	mg/L		0.000068	0.0050	SW-846 6010B	P
Cadmium	0.46	mg/L		0.00016	0.0050	SW-846 6010B	P
Calcium	105	mg/L		0.028	5.00	SW-846 6010B	P
Chromium	0.46	mg/L		0.00032	0.010	SW-846 6010B	P
Cobalt	0.43	mg/L		0.00051	0.050	SW-846 6010B	P
Copper	0.48	mg/L		0.0011	0.025	SW-846 6010B	P
Iron	5.74	mg/L		0.0095	0.10	SW-846 6010B	P
Lead	0.46	mg/L		0.0015	0.0030	SW-846 6010B	P
Magnesium	32.9	mg/L		0.023	5.00	SW-846 6010B	P
Manganese	0.49	mg/L		0.00057	0.015	SW-846 6010B	P
Mercury	0.00612	mg/L		0.000055	0.00020	SW-846 7470A	AV
Nickel	0.43	mg/L		0.0012	0.040	SW-846 6010B	P
Potassium	12.4	mg/L		0.068	5.00	SW-846 6010B	P
Selenium	0.48	mg/L		0.0037	0.0050	SW-846 6010B	P
Silver	0.49	mg/L		0.00058	0.010	SW-846 6010B	P
Sodium	42.8	mg/L		0.059	5.00	SW-846 6010B	P
Thallium	0.48	mg/L		0.0015	0.010	SW-846 6010B	P
Vanadium	0.48	mg/L		0.0011	0.050	SW-846 6010B	P
Zinc	0.46	mg/L		0.0040	0.020	SW-846 6010B	P

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL                              Sample ID: SK-MSD-1034 (GW58)

Lab Code: LA024                              Case No.:                              Contract:

Matrix: ( soil / water ) Water                              SAS No.:                              SDG No.: 210091822

Level: ( low / med )                              % Solids:                              Lab Sample ID: 21009182207

Date Received: 09/16/10                              Time: 0845                              Date Collected: 09/15/10                              Time: 1225

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	4.83	mg/L		0.018	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.49	mg/L		0.0035	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.51	mg/L		0.0030	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.57	mg/L		0.00031	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.49	mg/L		0.000068	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.46	mg/L		0.00016	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	104	mg/L		0.028	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.47	mg/L		0.00032	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.43	mg/L		0.00051	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.49	mg/L		0.0011	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	4.91	mg/L		0.0095	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.46	mg/L		0.0015	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	33.1	mg/L		0.023	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.48	mg/L		0.00057	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00597	mg/L		0.000055	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.44	mg/L		0.0012	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	12.5	mg/L		0.068	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.47	mg/L		0.0037	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.49	mg/L		0.00058	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	44.3	mg/L		0.059	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.47	mg/L		0.0015	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.48	mg/L		0.0011	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.45	mg/L		0.0040	0.020	SW-846 6010B Dissolved	P

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## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-GW26-1034  
 Lab Code: LA024 Case No.: Contract:  
 Matrix: ( soil / water ) Water SAS No.: SDG No.: 210091822  
 Level: ( low / med ) % Solids: Lab Sample ID: 21009182208  
 Date Received: 09/16/10 Time: 0845 Date Collected: 09/15/10 Time: 1255

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.52	mg/L		0.018	0.20	SW-846 6010B	P
Antimony	0.060	mg/L	U	0.0035	0.060	SW-846 6010B	P
Arsenic	0.011	mg/L		0.0030	0.010	SW-846 6010B	P
Barium	0.62	mg/L	E	0.00031	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B	P
Cadmium	0.00045	mg/L	B	0.00016	0.0050	SW-846 6010B	P
Calcium	67.2	mg/L		0.028	5.00	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00032	0.010	SW-846 6010B	P
Cobalt	0.0032	mg/L	B	0.00051	0.050	SW-846 6010B	P
Copper	0.025	mg/L	U	0.0011	0.025	SW-846 6010B	P
Iron	2.22	mg/L		0.0095	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B	P
Magnesium	32.8	mg/L		0.023	5.00	SW-846 6010B	P
Manganese	0.13	mg/L		0.00057	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A	AV
Nickel	0.0059	mg/L	B	0.0012	0.040	SW-846 6010B	P
Potassium	17.7	mg/L		0.068	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00058	0.010	SW-846 6010B	P
Sodium	187	mg/L		0.059	5.00	SW-846 6010B	P
Thallium	0.0021	mg/L	B	0.0015	0.010	SW-846 6010B	P
Vanadium	0.0069	mg/L	B	0.0011	0.050	SW-846 6010B	P
Zinc	0.020	mg/L	U	0.0040	0.020	SW-846 6010B	P

## INORGANIC ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SK-GW26-1034
Lab Code:	LA024	Case No.:	Contract:
Matrix:	( soil / water ) Water	SAS No.:	SDG No.:
Level:	( low / med )	% Solids:	Lab Sample ID:
Date Received:	09/16/10	Time:	0845 Date Collected:
			09/15/10 Time:
			1255

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	0.20	mg/L	U	0.018	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.060	mg/L	U	0.0035	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.0038	mg/L	B	0.0030	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.60	mg/L		0.00031	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.00048	mg/L	B	0.00016	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	61.6	mg/L		0.028	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00032	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.0017	mg/L	B	0.00051	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.025	mg/L	U	0.0011	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.18	mg/L		0.0095	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	32.3	mg/L		0.023	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.092	mg/L		0.00057	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.0036	mg/L	B	0.0012	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	17.6	mg/L		0.068	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00058	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	189	mg/L		0.059	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.0045	mg/L	B	0.0015	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.0057	mg/L	B	0.0011	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0040	0.020	SW-846 6010B Dissolved	P

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## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL                              Sample ID: SK-FD-1034 (GW26)  
 Lab Code: LA024                              Case No.: Contract:  
 Matrix: ( soil / water ) Water              SAS No.: SDG No.: 210091822  
 Level: ( low / med )                        % Solids: Lab Sample ID: 21009182209  
 Date Received: 09/16/10                    Time: 0845                              Date Collected: 09/15/10                    Time: 1255

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.20	mg/L	U	0.018	0.20	SW-846 6010B	P
Antimony	0.060	mg/L	U	0.0035	0.060	SW-846 6010B	P
Arsenic	0.0071	mg/L	B	0.0030	0.010	SW-846 6010B	P
Barium	0.63	mg/L	E	0.00031	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B	P
Cadmium	0.00034	mg/L	B	0.00016	0.0050	SW-846 6010B	P
Calcium	64.0	mg/L		0.028	5.00	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00032	0.010	SW-846 6010B	P
Cobalt	0.0023	mg/L	B	0.00051	0.050	SW-846 6010B	P
Copper	0.025	mg/L	U	0.0011	0.025	SW-846 6010B	P
Iron	0.95	mg/L		0.0095	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B	P
Magnesium	32.2	mg/L		0.023	5.00	SW-846 6010B	P
Manganese	0.10	mg/L		0.00057	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A	AV
Nickel	0.0037	mg/L	B	0.0012	0.040	SW-846 6010B	P
Potassium	17.8	mg/L		0.068	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00058	0.010	SW-846 6010B	P
Sodium	190	mg/L		0.059	5.00	SW-846 6010B	P
Thallium	0.010	mg/L	U	0.0015	0.010	SW-846 6010B	P
Vanadium	0.0061	mg/L	B	0.0011	0.050	SW-846 6010B	P
Zinc	0.020	mg/L	U	0.0040	0.020	SW-846 6010B	P

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-FD-1034 (GW26)  
 Lab Code: LA024 Case No.: Contract:  
 Matrix: ( soil / water ) Water SAS No.: SDG No.: 210091822  
 Level: ( low / med ) % Solids: Lab Sample ID: 21009182209  
 Date Received: 09/16/10 Time: 0845 Date Collected: 09/15/10 Time: 1255

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	0.20	mg/L	U	0.018	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.060	mg/L	U	0.0035	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.0069	mg/L	B	0.0030	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.63	mg/L		0.00031	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.00031	mg/L	B	0.00016	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	62.7	mg/L		0.028	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00032	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.0015	mg/L	B	0.00051	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.025	mg/L	U	0.0011	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.21	mg/L		0.0095	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	32.8	mg/L		0.023	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.095	mg/L		0.00057	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.0027	mg/L	B	0.0012	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	17.9	mg/L		0.068	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00058	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	192	mg/L		0.059	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.0031	mg/L	B	0.0015	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.0066	mg/L	B	0.0011	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0040	0.020	SW-846 6010B Dissolved	P

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## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL                              Sample ID: SK-GW07R-1034  
 Lab Code: LA024                              Case No.:  
 Matrix: ( soil / water ) Water                              Contract:  
 Level: ( low / med )                              % Solids:  
 Date Received: 09/16/10                              Time: 0845                              Lab Sample ID: 21009182210  
 Date Collected: 09/15/10                              Time: 1320                              SDG No.: 210091822

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.20	mg/L	U	0.018	0.20	SW-846 6010B	P
Antimony	0.060	mg/L	U	0.0035	0.060	SW-846 6010B	P
Arsenic	0.0095	mg/L	B	0.0030	0.010	SW-846 6010B	P
Barium	0.070	mg/L	B	0.00031	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B	P
Cadmium	0.00058	mg/L	B	0.00016	0.0050	SW-846 6010B	P
Calcium	222	mg/L		0.028	5.00	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00032	0.010	SW-846 6010B	P
Cobalt	0.0031	mg/L	B	0.00051	0.050	SW-846 6010B	P
Copper	0.023	mg/L	B	0.0011	0.025	SW-846 6010B	P
Iron	2.28	mg/L		0.0095	0.10	SW-846 6010B	P
Lead	0.0026	mg/L	B	0.0015	0.0030	SW-846 6010B	P
Magnesium	37.3	mg/L		0.023	5.00	SW-846 6010B	P
Manganese	1.53	mg/L		0.00057	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A	AV
Nickel	0.0048	mg/L	B	0.0012	0.040	SW-846 6010B	P
Potassium	1.90	mg/L	B	0.068	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00058	0.010	SW-846 6010B	P
Sodium	15.7	mg/L		0.059	5.00	SW-846 6010B	P
Thallium	0.0059	mg/L	B	0.0015	0.010	SW-846 6010B	P
Vanadium	0.0059	mg/L	B	0.0011	0.050	SW-846 6010B	P
Zinc	0.042	mg/L		0.0040	0.020	SW-846 6010B	P

## INORGANIC ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SK-GW07R-1034
Lab Code:	LA024	Case No.:	Contract:
Matrix:	( soil / water ) Water	SAS No.:	SDG No.:
Level:	( low / med )	% Solids:	Lab Sample ID:
Date Received:	09/16/10	Time:	0845 Date Collected:
			09/15/10 Time:
			1320

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	0.20	mg/L	U	0.018	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.0088	mg/L	B	0.0035	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.0081	mg/L	B	0.0030	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.075	mg/L	B	0.00031	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000068	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.00051	mg/L	B	0.00016	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	224	mg/L		0.028	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00032	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.0028	mg/L	B	0.00051	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.025	mg/L	U	0.0011	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	3.67	mg/L		0.0095	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	38.5	mg/L		0.023	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	1.65	mg/L		0.00057	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000055	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.0042	mg/L	B	0.0012	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	1.97	mg/L	B	0.068	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0037	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00058	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	16.2	mg/L		0.059	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.0048	mg/L	B	0.0015	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.0064	mg/L	B	0.0011	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0040	0.020	SW-846 6010B Dissolved	P

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009182201	SK-GW65-1034	Water	09/15/2010 09:55	09/16/2010 08:45

### SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/21/2010 12:00	442302	SW-846 9012A	1	09/22/2010 14:59	AEL	442352

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0020B	0.0050	0.0017	mg/L

GCAL ID 21009182202	Client ID SK-GW63-1034	Matrix Water	Collect Date/Time 09/15/2010 10:15	Receive Date/Time 09/16/2010 08:45
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**SW-846 9012A Cyanide**

Prep Date 09/21/2010 12:00	Prep Batch 442302	Prep Method SW-846 9012A	Dilution 1	Analyzed 09/22/2010 15:00	By AEL	Analytical Batch 442352
CAS# 57-12-5	Parameter Total Cyanide		Result 0.0050U	RDL 0.0050	MDL 0.0017	Units mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009182203	SK-GW61-1034	Water	09/15/2010 10:29	09/16/2010 08:45

**SW-846 9012A Cyanide**

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/21/2010 12:00	442302	SW-846 9012A	1	09/22/2010 15:01	AEL	442352
CAS#	Parameter		Result	RDL	MDL	Units
57-12-5	Total Cyanide		0.0050U	0.0050	0.0017	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009182204	SK-GW59-1034	Water	09/15/2010 10:40	09/16/2010 08:45

### SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/21/2010 12:00	442302	SW-846 9012A	1	09/22/2010 15:02	AEL	442352

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0027B	0.0050	0.0017	mg/L

GCAL ID 21009182205	Client ID SK-GW58-1034	Matrix Water	Collect Date/Time 09/15/2010 12:25	Receive Date/Time 09/16/2010 08:45
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**SW-846 9012A Cyanide**

Prep Date 09/21/2010 12:00	Prep Batch 442302	Prep Method SW-846 9012A	Dilution 1	Analyzed 09/22/2010 15:03	By AEL	Analytical Batch 442352
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CAS# 57-12-5	Parameter Total Cyanide	Result 0.0050U	RDL 0.0050	MDL 0.0017	Units mg/L
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GCAL ID 21009182206	Client ID SK-MS-1034 (GW58)	Matrix Water	Collect Date/Time 09/15/2010 12:25	Receive Date/Time 09/16/2010 08:45
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**SW-846 9012A Cyanide**

Prep Date 09/21/2010 12:00	Prep Batch 442302	Prep Method SW-846 9012A	Dilution 1	Analyzed 09/22/2010 15:04	By AEL	Analytical Batch 442352
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CAS# 57-12-5	Parameter Total Cyanide	Result 0.0521	RDL 0.0050	MDL 0.0017	Units mg/L
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GCAL ID 21009182207	Client ID SK-MSD-1034 (GW58)	Matrix Water	Collect Date/Time 09/15/2010 12:25	Receive Date/Time 09/16/2010 08:45
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**SW-846 9012A Cyanide**

Prep Date 09/21/2010 12:00	Prep Batch 442302	Prep Method SW-846 9012A	Dilution 1	Analyzed 09/22/2010 15:05	By AEL	Analytical Batch 442352
CAS# 57-12-5	Parameter Total Cyanide			Result 0.0521	RDL 0.0050	MDL 0.0017
						Units mg/L

GCAL ID 21009182208	Client ID SK-GW26-1034	Matrix Water	Collect Date/Time 09/15/2010 12:55	Receive Date/Time 09/16/2010 08:45
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**SW-846 9012A Cyanide**

Prep Date 09/21/2010 12:00	Prep Batch 442302	Prep Method SW-846 9012A	Dilution 1	Analyzed 09/22/2010 15:06	By AEL	Analytical Batch 442352
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CAS# 57-12-5	Parameter Total Cyanide	Result 0.0050U	RDL 0.0050	MDL 0.0017	Units mg/L
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GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009182209	SK-FD-1034 (GW26)	Water	09/15/2010 12:55	09/16/2010 08:45

**SW-846 9012A Cyanide**

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/21/2010 12:00	442302	SW-846 9012A	1	09/22/2010 15:07	AEL	442352

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0050U	0.0050	0.0017	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009182210	SK-GW07R-1034	Water	09/15/2010 13:20	09/16/2010 08:45

**SW-846 9012A Cyanide**

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/21/2010 12:00	442302	SW-846 9012A	1	09/22/2010 15:10	AEL	442352

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0050U	0.0050	0.0017	mg/L





## PHOTOGRAPHS

**AECOM**



**Client Name:**  
Skinner Landfill Site Group

**Site Location:** Skinner Landfill  
8750 Cincinnati Dayton Rd.  
West Chester, OH 45069

**Project No.**  
60150390

**Photo No.** 1      **Date:** 09/14/11

**Direction Photo**  
**Taken:**

East

**Description:**

View facing upstream from upstream gabion wall toward railroad overpass of unexplained turbid water flowing in the East Fork of the Mill Creek adjacent to Skinner Landfill



**Photo No.** 2      **Date:** 09/15/11

**Direction Photo**  
**Taken:**

East

**Description:**

View facing upstream from upstream gabion wall toward railroad overpass of low to no flow the day after observing unexplained turbid water



<b>Client Name:</b> Skinner Landfill Site Group		<b>Site Location:</b> Skinner Landfill 8750 Cincinnati Dayton Rd. West Chester, OH 45069	<b>Project No.</b> 60150390
<b>Photo No.</b> <b>3</b>	<b>Date:</b> 09/14/11		
<b>Direction Photo Taken:</b>			West
<b>Description:</b>			View facing downstream from upstream gabion wall toward railroad overpass of unexplained turbid water

<b>Photo No.</b> <b>4</b>	<b>Date:</b> 09/15/11		
<b>Direction Photo Taken:</b>			West
<b>Description:</b>			View facing downstream from upstream gabion wall toward railroad overpass of low to no flow the day after observing unexplained turbid water

**Client Name:**  
Skinner Landfill Site Group

**Site Location:** Skinner Landfill  
8750 Cincinnati Dayton Rd.  
West Chester, OH 45069

**Project No.**  
60150390

**Photo No.**

**5**

**Date:**

09/14/11

**Direction Photo Taken:**

Southeast

**Description:**

View facing upstream from bridge near Gate 1 of unexplained turbid water



**Photo No.**

**6**

**Date:**

09/15/11

**Direction Photo Taken:**

Southeast

**Description:**

View facing upstream from bridge near Gate 1 of low to no flow the day after observing unexplained turbid water



**Client Name:**  
Skinner Landfill Site Group

**Site Location:** Skinner Landfill  
8750 Cincinnati Dayton Rd.  
West Chester, OH 45069

**Project No.**  
60150390

**Photo No.**  
**7**      **Date:**  
09/14/11

**Direction Photo Taken:**

Northwest

**Description:**

View facing downstream from bridge near Gate 1 of unexplained turbid water



**Photo No.**  
**8**      **Date:**  
09/15/11

**Direction Photo Taken:**

Northwest

**Description:**

View facing downstream from bridge near Gate 1 of low to no flow the day after observing unexplained turbid water

